SELECTED TRACE-ELEMENT DATA FOR STREAMS IN THE SOUTHERN YAMPA RIVER BASIN, NORTHWESTERN COLORADO

By Wendy S. Maura

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CONTENTS

Page

Abstract--- 1
Introduction--- 1
Description of study area-- 1
Description of data-- 2
References--- 5

ILLUSTRATION

Page

Figure 1. Map of showing location of surface-water gaging stations and selected surface-water sampling sites in the study area----- 3

TABLES

Page

Table 1. Water-quality study sites in the southern Yampa River basin---- 6
2. Surface-water gaging stations in the southern Yampa River basin where water-quality data are collected---------------- 7
3. Water-quality data collected at study sites in the southern Yampa River basin:
    09238000 Oak Creek near Oak Creek-------------------- 8
    09244100 Fish Creek near Milner---------------------- 10
    09244300 Grassy Creek near Mount Harris-------------- 11
    09250000 Milk Creek near Thornburgh------------------ 13
    401601107375400 Morapos Creek near Iles Grove--------------- 14
    401601107395300 Stinking Gulch near Thornburgh-------------- 16
    401747107161600 Willow Creek near Dunckley------------------ 20
    401829107375600 Deer Creek near Hamilton-------------------- 22
    401857107243500 South Fork of Williams Fork at mouth near Pagoda------------------------------ 24
    401925107523500 Collom Gulch near Axial--------------------- 26
    401944107322900 Waddle Creek near Hamilton------------------ 28
    401948107445600 Milk Creek near Iles Grove------------------ 30
    402330107082000 Grassy Creek at Grassy Gap------------------ 32
    402530106585700 Fish Creek at mouth near Milner------------- 34
    402605107181500 Dill Gulch near Hayden---------------------- 40
    402720106591200 Trout Creek above Milner-------------------- 41
    402829107193700 Smuin Gulch near Hayden--------------------- 43
    402836106550100 Cow Creek near Steamboat Springs------------ 44
Table 4. Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin:
    09243700 Middle Creek near Oak Creek----------------- 45
    09243800 Foidel Creek near Oak Creek----------------- 55
    09243900 Foidel Creek at mouth, near Oak Creek-------- 67
    09244415 Sage Creek above Sage Creek Reservoir, near Hayden--------------------------------------- 78
    09244460 Watering Trough Gulch near Hayden------------ 85
    09244464 Hubberson Gulch near Hayden----------------- 93

CONTENTS

Page

Table 4--Continued:

09244470 Stokes Gulch near Hayden--------------------- 106
09250507 Wilson Creek above Taylor Creek near Axial--- 112
09250510 Taylor Creek at mouth near Axial------------- 116
09250600 Wilson Creek near Axial---------------------- 127
09250610 Jubb Creek near Axial------------------------ 135
09250700 Morgan Gulch near Axial---------------------- 145

Table 5. Statistical summary of water-quality data collected at selected surface-water gaging stations in the Yampa River basin:

09244410 Yampa River below diversion, near Hayden----- 149
09247600 Yampa River below Elkhead Creek near Craig--- 150
09247600 Yampa River below Craig---------------------- 151
09249750 Williams Fork at mouth, near Hamilton-------- 152
09250400 Good Spring Creek at Axial------------------- 153
09251000 Yampa River near Maybell--------------------- 154

CONVERSION FACTORS

The inch-pound units used in this report may be converted to SI (International System) units by using the following conversion factors:

Multiply inch-pound units	*By*	*To obtain metric units*
acre-foot (acre-ft)	0.001233	cubic hectometer
cubic foot per second (ft^3/s)	0.2832	cubic meter per second
square mile (mi^2)	2.590	square kilometer
ton, short, per acre-foot (ton/acre-ft)	1.119	kilogram per cubic hectometer
ton, short, per day (ton/d)	907.2	kilogram per day

Degree Celsius (°C) may be converted to degree Fahrenheit (°F) by using the following equation:

$$°F=9/5°C+32$$

The following terms and abbreviations also are used in this report:

microgram per liter (μg/L)
microsiemens per centimeter (μS/cm)
milligram per liter (mg/L)

SELECTED TRACE-ELEMENT DATA FOR STREAMS IN THE SOUTHERN YAMPA RIVER BASIN, NORTHWESTERN COLORADO

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ABSTRACT

Increases in coal mining in northwestern Colorado have increased concerns about the impact of mining on the chemical quality of surface water. An area of particular concern is in the southern part of the Yampa River basin. To identify the changes produced by mining in this area, it is necessary to determine the present water chemistry resulting from the geology, climate, and land use. Because few data were available, a program for the synoptic collection of water-quality data was developed, in which sampling sites were selected to determine the surface-water chemistry.

This study was begun in April 1982. Water-quality samples were collected from sites on continuously flowing streams where a large concentration of suspended material was present. Each selected site, from the Oak Creek drainage near Steamboat Springs on the east, to the surface-water gaging station on the Yampa River near Maybell on the west, was sampled repetitively as changes occurred in discharge and specific conductance. Water-quality data from surface-water gaging stations and other selected surface-water sampling sites in the study area for water years 1976 to 1982 are included in the report.

INTRODUCTION

Increasing demands for energy have resulted in a significant increase of coal production in Colorado, particularly in the Yampa River basin of northwestern Colorado. This development has increased concerns about the impacts of mining on the quality of surface water. To identify the possible changes in water quality produced by mining in this area, it is first necessary to determine the present water chemistry resulting from the geology, climate, and land use. A synoptic water-quality program was developed to assess the water chemistry of the Yampa River basin.

This study began in April 1982, in cooperation with the U.S. Bureau of Land Management. It was a continuation of a 1981 study (Maura, 1982) in which water-quality samples were collected to determine concentrations of the major dissolved constituents present in streams of this study area. The objective of this report is to make available the trace-element data collected for selected streams in this study area.

DESCRIPTION OF STUDY AREA

Data presented in this publication were collected from some of the sites sampled in the 1981 study (Maura, 1982). In that study, 26 sites were sampled in the synoptic data-collection program. The criterion for selecting a stream for sampling was that the stream be flowing in April 1981.

In this study, 18 sites were chosen from the original 26 to collect trace-element data. The reduced number of sites results from an additional criterion that a site must have a large concentration of suspended material. In addition to these 18 sites sampled during the study period, 18 established surface-water gaging stations were selected that had similar trace-element data available. Locations of these established surface-water gaging stations and additional surface-water sampling sites are shown in figure 1.

The area of data collection was the southern part of the Yampa River basin between the confluence with Oak Creek upstream from Steamboat Springs, downstream to the surface-water gaging station, 09251000 Yampa River near Maybell. This downstream station was chosen as the western limit of the study area because it is included in the National Stream Quality Accounting Network (NASQAN), and it is a station for which a large number of water-quality analyses are available.

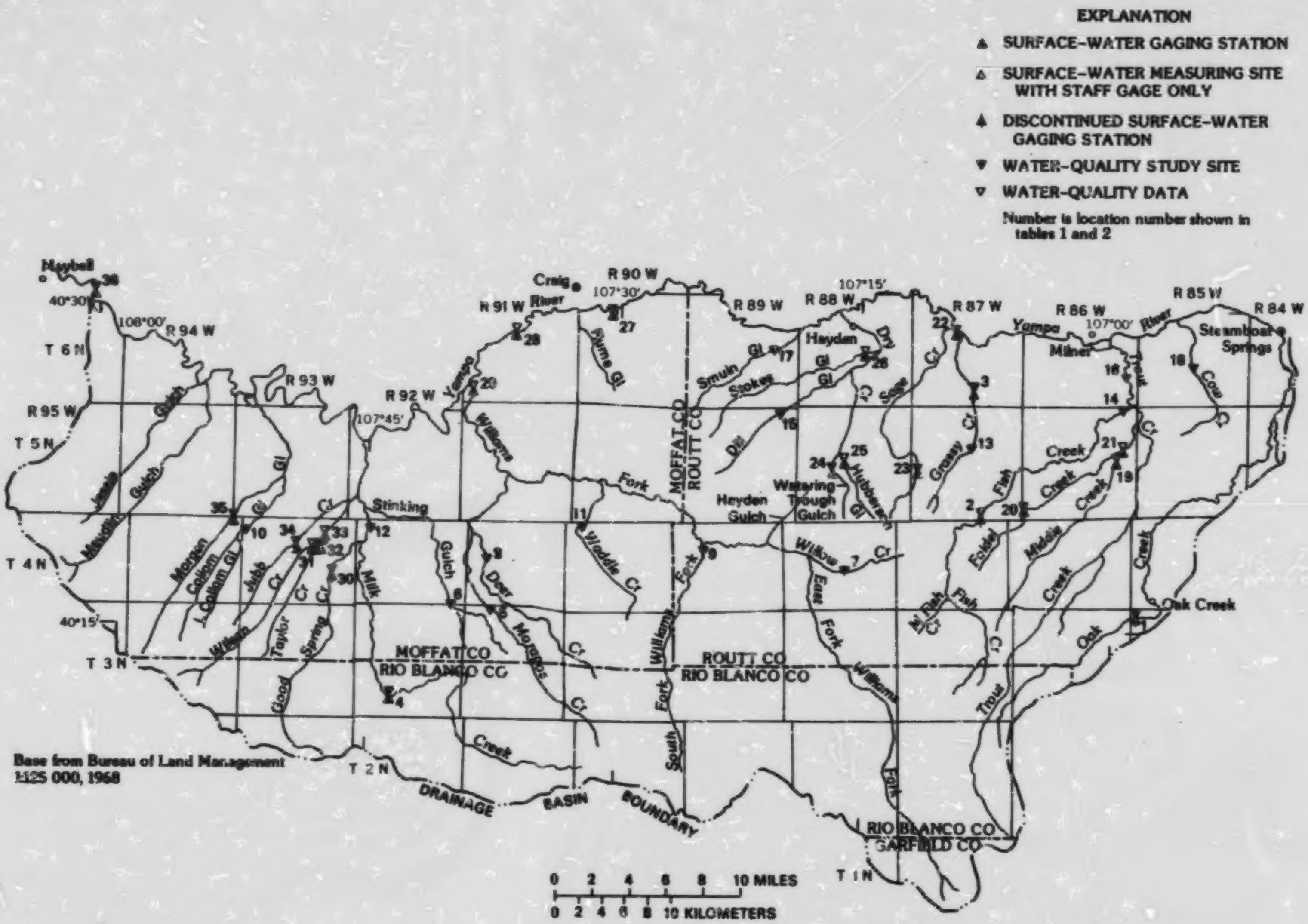
DESCRIPTION OF DATA

At each study site, water samples were collected as discharge decreased through the season. As flow decreased, suspended-sediment concentration generally decreased. When the sediment concentration was less than 100 mg/L, data collection was discontinued at the site.

The instantaneous discharge of the stream was measured at the time of each sample collection, and the onsite measurements of water temperature, pH, and specific conductance were recorded. Analyses of the water-quality samples were performed at the Denver Central Laboratory of the U.S. Geological Survey, Arvada, Colo.

The individual trace elements and suspended sediment properties analyzed, with units of measurement, are listed below:

Phosphorus, total (mg/L as P)
Aluminum, (μg/L as Al)
Arsenic, (μg/L as As)
Cadmium, (μg/L as Cd)
Chromium, (ug/L as Cr)
Cobalt, (μg/L as Co)
Copper, (μg/L as Cu)
Iron, (μg/L as Fe)
Lead, (μg/L as Pb)
Manganese, (μg/L as Mn)
Mercury, (μg/L as Hg)
Selenium, (μg/L as Se)
Zinc, (μg/L as Zn)
Sediment, suspended (mg/L)
Sediment, discharge, suspended (ton/d)


EXPLANATION
▲ SURFACE-WATER GAGING STATION
△ SURFACE-WATER MEASURING SITE WITH STAFF GAGE ONLY
▲ DISCONTINUED SURFACE-WATER GAGING STATION
▼ WATER-QUALITY STUDY SITE
▽ WATER-QUALITY DATA
Number is location number shown in tables 1 and 2
Maybell
Craig
Hayden
Milner
Steamboat Springs
Oak Creek
Yampa River
R 95 W
R 94 W
R 93 W
R 92 W
R 91 W
R 90 W
R 89 W
R 88 W
R 87 W
R 86 W
R 85 W
R 84 W
T 6 N
T 5 N
T 4 N
T 3 N
T 2 N
T 1 N
40°30'
40°15'
108°00'
107°45'
107°30'
107°15'
107°00'
MOFFAT CO
ROUTT CO
RIO BLANCO CO
GARFIELD CO
DRAINAGE BASIN BOUNDARY
Williams Fork
East Fork Williams Fork
South Fork Williams Fork
Jessie Gulch
Maudlin Gulch
Morgan Gulch
Collom Gl
L Collom Gl
Jubb Cr
William Cr
Taylor Cr
Good Spring Cr
Milk Cr
Stinking Gulch
Deer Cr
Morapos Cr
Waddle Cr
Plume Gl
Smuin Gl
Stokes Gl
Dill Gl
Dry Cr
Sage Cr
Grassy Cr
Hubberson Gl
Hayden Gulch
Watering Trough Gulch
Willow Cr
Fish Creek
Foidel Cr
Middle Creek
N Fish Cr
Fish Cr
Trout Cr
Trout Creek
Cow Cr
Oak Creek
Creek
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
0 2 4 6 8 10 MILES
0 2 4 6 8 10 KILOMETERS

Base from Bureau of Land Management 1:125 000, 1968

Figure 1.--Location of surface-water gaging stations and selected surface-water sampling sites in the study area.

These trace elements (except phosphorus) were analyzed for total, dissolved, and suspended concentrations.

The location of each water-quality sampling site is shown in figure 1, and a description of each site is given in table 1. Surface-water gaging stations in the study area where both sediment and water-quality data were already available are described in table 2. There are additional surface-water gaging stations in the study area that are not listed in table 2 or shown in figure 1 because they record only streamflow. Many stations listed in table 2 are on the main stem of the Yampa River or its principal tributary, the Williams Fork. These stations are part of the long-term gaging network of the U.S. Geological Survey. Many of the surface-water gaging stations on the smaller tributaries in the study area were operated in cooperation with U.S. Bureau of Land Management as part of the U.S. Geological Survey Coal Hydrology Program.

Data collected at the study sites are listed in table 3. Water-quality constituents and properties determined from samples collected at U.S. Geological Survey surface-water gaging stations are listed in table 4. Data are listed only for the same constituents collected at the study sites. Water-quality data collected prior to water year 1976, and for additional water-qualty constituents, are available for some of these stations and are published annually in a series of the U.S. Geological Survey water-data reports entitled "Water Resources Data--Colorado."

A statistical summary of the constituents reported in tables 3 and 4 is given in table 5. This table contains a summary for six surface-water gaging stations located on the Yampa River, the Williams Fork, and Good Springs Creek. Many samples were collected at these six stations; therefore, only a summary of the data is given, which includes the number of samples, the mean, the standard deviation, and the range of each constituent for the period of record. The actual data are stored in WATSTORE, the U.S. Geological Survey's national water data storage and retrieval system.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in tables 1 through 5.

°C is degrees Celsius;
E is estimated;
ft^3/s is cubic feet per second;
μS/cm is microsiemens per centimeter;
mg/L is milligrams per liter;
N is number of water-quality samples;
ND is not determined;
mi^2 is square miles; and
ton/d is tons per day.

REFERENCES

Maura, W.S., 1982, Water-quality data for streams in the southern Yampa River basin, Northwestern Colorado: U.S. Geological Survey Open-File Report 82-1017, 112 p.

U.S. Geological Survey, 1976, Water resources data for Colorado, water year 1976, Volume 2. Colorado River Basin: U.S. Geological Survey Water-Data Report CO-76-2, available only from National Technical Information Service, Springfield, Va., as PB-278780.

U.S. Geological Survey, issued annually, Water resources data for Colorado (for water years 1977-1981), Volume 3. Dolores River basin, Green River basin, and San Juan River basin: U.S. Geological Survey Water-Data Reports CO-77-3, CO-78-3, CO-79-3, CO-80-3, CO-81-3, CO-82-3, available only from National Technical Information Service, Springfield, Va., as PB-293522, PB80-119969, PB80-217979, PB82-202045, and PB83-124446.

Table 1.--*Water-quality study sites in the southern Yampa River basin*

Location number in figure 1	Station number	Station name	Latitude	Longitude	Drainage area (mi^2)
1	09238000	Oak Creek near Oak Creek	40 14 38	107 00 53	14.0
2	09244100	Fish Creek near Milner	40 20 03	107 08 19	34.5
3	09244300	Grassy Creek near Mount Harris	40 26 49	107 08 42	25.8
4	09250000	Milk Creek near Thornburgh	40 11 37	107 43 54	65.0
5	401601107375400	Morapos Creek near Iles Grove	40 16 01	107 37 54	16.8
6	401601107395300	Stinking Gulch near Thornburgh	40 16 01	107 39 53	8.43
7	401747107161600	Willow Creek near Dunckley	40 17 47	107 16 16	19.6
8	401829107375600	Deer Creek near Hamilton	40 18 29	107 37 56	27.9
9	401857107243500	South Fork of Williams Fork at mouth near Pagoda	40 18 57	107 24 35	56.6
10	401925107523500	Collom Gulch near Axial	40 19 25	107 52 35	12.8
11	401944107322900	Waddle Creek near Hamilton	40 19 44	107 32 29	16.3
12	401948107445600	Milk Creek near Iles Grove	40 19 48	107 44 56	134
13	402330107082000	Grassy Creek at Grassy Gap	40 23 30	107 08 20	5.52
14	402530106585700	Fish Creek at mouth near Milner	40 25 30	106 58 57	77.9
15	402605107181500	Dill Gulch near Hayden	40 26 05	107 18 15	9.55
16	402720106591200	Trout Creek above Milner	40 27 20	106 59 12	110
17	402829107193700	Smuin Gulch near Hayden	40 28 29	107 19 37	11.3
18	402836106550100	Cow Creek near Steamboat Springs	40 28 36	106 55 01	14.4

Table 2.--*Surface-water gaging stations in the southern Yampa River basin where water-quality data are collected*

Location number in figure 1	Station number	Station name	Latitude	Longitude	Drainage area (mi²)
19	09243700	Middle Creek near Oak Creek	40 23 08	106 59 33	23.5
20	09243800	Foidel Creek near Oak Creek	40 20 45	107 05 04	8.61
21	09243900	Foidel Creek at mouth, near Oak Creek	40 23 25	106 59 39	17.5
22	09244410	Yampa River below diversion, near Hayden	40 29 18	107 09 33	1430
23	09244415	Sage Creek above Sage Creek Reservoir, near Hayden	40 23 01	107 11 34	4.17
24	09244460	Watering Trough Gulch near Hayden	40 22 57	107 16 49	2.65
25	09244464	Hubberson Gulch near Hayden	40 23 28	107 16 15	8.08
26	09244470	Stokes Gulch near Hayden	40 28 06	107 14 47	13.6
27	09246550	Yampa River below Elkhead Creek near Craig	40 29 50	107 30 34	--
28	09247600	Yampa River below Craig	40 29 04	107 36 23	--
29	09249750	Williams Fork at mouth, near Hamilton	40 26 14	107 38 50	--
30	09250400	Good Spring Creek at Axial	40 17 25	107 47 22	40.0
31	09250507	Wilson Creek above Taylor Creek near Axial	40 18 53	107 47 58	20.0
32	09250510	Taylor Creek at mouth near Axial	40 18 48	107 47 57	7.22
33	09250600	Wilson Creek near Axial	40 18 56	107 47 50	27.4
34	09250610	Jubb Creek near Axial	40 18 45	107 49 18	7.53
35	09250700	Morgan Gulch near Axial	40 20 09	107 53 06	25.6
36	09251000	Yampa River near Maybell	40 30 10	108 01 45	3410

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*

09238000 Oak Creek near Oak Creek

Water-quality data, water year October 1975 to September 1976

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)
Jun 06---	16	220	8.3	12.0	0.040	1	<1	1	<20	<10

Date	Cadmium, dissolved (µg/L as Cd)	Cobalt, total recoverable (µg/L as Co)	Cobalt, suspended recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Jun 06---	--	<100	<50	--	<20	<8	2	710	540

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

09238000 Oak Creek near Oak Creek

Water-quality data, water year October 1975 to September 1976

Date	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)
Jun 06---	170	<200	<100	--	30	30	<10	<0.5	0.2

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Jun 06---	<0.5	<1	0	<1	<20	0	20	9	0.39

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

09244100 Fish Creek near Milner

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)
Apr										
15---	37	431	7.9	5.0	--	12,000	3	<1	11	8
27---	51	367	8.4	4.0	0.091	3,500	2	<1	6	1
29---	66	339	8.1	3.0	.165	4,500	2	<1	4	2

Date	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Selenium, total (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr									
15---	16	22,000	5	520	0.1	2	130	557	56
27---	7	5,800	4	140	.6	1	30	323	44
29---	9	7,600	3	170	.1	1	40	401	71

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

09244300 Grassy Creek near Mount Harris

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Apr											
01---	9.6	2150	7.9	6.0	--	5,400	40	2	1	<1	<1
14---	93	812	7.8	11.0	--	68,000	--	8	--	<1	--
27---	24	1620	8.3	10.0	0.216	17,000	--	3	--	<1	--

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
Apr										
01---	6	<1	2	<1	9	2	5,600	110	3	1
14---	31	--	10	--	80	--	78,000	--	3	--
27---	16	--	5	--	23	--	20,000	--	4	--

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

09244300 Grassy Creek near Mount Harris

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (μg/L as Mn)	Manganese, dissolved (μg/L as Mn)	Mercury, total recoverable (μg/L) as Hg)	Mercury, dissolved (μg/L as Hg)	Selenium, total (μg/L as Se)	Selenium, dissolved (μg/L as Se)	Zinc, total recoverable (μg/L as Zn)	Zinc, dissolved (μg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr										
01---	100	40	0.1	<0.1	21	19	30	10	185	4.8
14---	1300	--	.1	--	10	--	340	--	3990	1000
27---	270	--	.5	--	10	--	100	--	850	55

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

09250000 Milk Creek near Thornburgh

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)
May									
18---	266	380	10.0	0.328	7300	3	1	21	7

Date	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Selenium, total (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
May									
18---	19	14,000	8	220	0.2	2	80	870	625

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401601107375400 Morapos Creek near Iles Grove

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Apr											
16---	22	521	7.9	5.0	--	8400	--	6	--	<1	--
23---	8.2	463	8.1	4.0	0.090	550	--	1	--	<1	--
May											
04---	122	232	7.8	5.0	.177	6900	80	4	1	<1	<1
06---	67	263	7.6	1.0	.149	3500	--	1	--	<1	--
13---	41	314	7.6	--	.081	1900	--	1	--	<1	--

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
Apr										
16---	13	--	6	--	19	--	16,000	--	6	--
23---	1	--	<1	--	3	--	890	--	<1	--
May										
04---	10	<1	5	<5	13	<5	13,000	100	4	<5
06---	5	--	1	--	8	--	5,800	--	2	--
13---	6	--	1	--	6	--	3,100	--	2	--

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401601107375400 Morapos Creek near Iles Grove

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr										
16---	480	--	0.1	--	2	--	80	--	864	51
23---	40	--	.1	--	1	--	20	--	42	.93
May										
04---	300	35	.1	<.1	1	<1	70	5	865	285
06---	130	--	.1	--	<1	--	40	--	404	73
13---	90	--	.4	--	1	--	30	--	172	19

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401601107395300 Stinking Gulch near Thornburgh

Water-quality data, water year October 1975 to September 1976

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)
Dec										
03---	0.83	2200	8.3	0.0	<0.010	6	6	<1	<20	<9
Mar										
01---	7.0	745	8.2	.5	.050	340	340	<1	20	19
Jun										
07---	10	625	8.6	19.5	.620	12	11	1	<20	<10
Aug										
30---	.38	3900	8.5	21.0	.050	1	<1	1	<20	<10

Date	Cadmium, dissolved (µg/L as Cd)	Cobalt, total recoverable (µg/L as Co)	Cobalt, suspended recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Dec									
03---	<2	100	99	<2	<20	6	4	6,300	6,200
Mar									
01---	<2	150	150	--	270	270	4	260,000	260,000
Jun									
07---	--	<100	<50	--	20	18	2	16,000	16,000
Aug									
30---	--	<100	<50	--	20	19	<2	1,200	1,200

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401601107395300 Stinking Gulch near Thornburgh

Water-quality data, water year October 1975 to September 1976

Date	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	mercury suspended recoverable (µg/L as Hg)
Dec 03---	50	<200	<96	4	210	150	60	<0.5	0.1
Mar 01---	110	400	400	2	4200	4200	40	<.5	.4
Jun 07---	70	<200	<100	--	200	190	<10	<.5	.0
Aug 30---	30	<200	<100	--	180	30	150	<.5	.0

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Dec 03---	<0.5	28	1	27	50	10	40	1,020	2.3
Mar 01---	<.5	11	0	11	1400	1400	<20	16,500	311
Jun 07---	<.5	7	5	2	100	100	--	796	21
Aug 30---	<.5	42	0	42	20	10	<20	158	.16

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401601107395300 Stinking Gulch near Thornburgh

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Mar											
25---	2.8	1450	8.4	7.0	--	8,600	--	3	--	<1	--
Apr											
15---	13	637	8.3	--	--	16,000	--	4	--	<1	--
23---	11	624	8.3	6.5	0.456	9,100	--	2	--	<1	--
May											
05---	11	552	8.0	8.0	.211	5,600	30	2	1	<1	<1

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
Mar										
25---	20	--	5	--	19	--	15,000	--	5	--
Apr										
15---	14	--	10	--	34	--	34,000	--	3	--
23---	11	--	6	--	21	--	17,000	--	5	--
May										
05---	7	<1	4	<1	12	1	11,000	31	4	1

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401601107395300 Stinking Gulch near Thornburgh

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Mar										
25---	200	--	0.1	--	10	--	90	--	648	4.9
Apr										
15---	510	--	.1	--	6	--	170	--	1750	61
23---	260	--	.1	--	5	--	100	--	942	28
May										
05---	190	11	.1	<.1	6	5	60	9	523	16

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401747107161600 Willow Creek near Dunckley

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
May											
05---	65	335	8.0	6.5	0.289	6100	20	3	1	1	<1
13---	76	350	7.6	1.5	.069	4200	--	2	--	<1	--

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
May										
05---	11	<1	5	<1	15	2	13,000	61	4	<1
13---	8	--	3	--	10	--	7,800	--	4	--

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401747107161600 Willow Creek near Dunckley

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
May										
05---	210	19	0.2	<0.1	4	3	80	16	902	158
13---	130	--	.2	--	2	--	60	--	517	106

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401829107375600 Deer Creek near Hamilton

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instan-taneous (ft³/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Phos-phorus, total (mg/L as P)	Alum-inum, total recov-erable (µg/L as Al)	Alum-inum, dis-solved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dis-solved (µg/L as As)	Cadmium, total recov-erable (µg/L as Cd)	Cadmium, dis-solved (µg/L as Cd)
Apr											
16---	13	576	8.2	5.0	--	5,200	--	3	--	<1	--
23---	14	621	8.1	5.0	0.638	3,000	--	2	--	<1	--
May											
04---	83	331	7.7	5.0	.195	35,000	20	11	1	<1	<1
13---	54	430	7.7	1.0	.914	14,000	--	6	--	<1	--

Date	Chro-mium, total recov-erable (µg/L as Cr)	Chro-mium, dis-solved (µg/L as Cr)	Cobalt, total recov-erable (µg/L as Co)	Cobalt, dis-solved (µg/L as Co)	Copper, total recov-erable (µg/L as Cu)	Copper, dis-solved (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)	Iron, dis-solved (µg/L as Fe)	Lead, total recov-erable (µg/L as Pb)	Lead, dis-solved (µg/L as Pb)
Apr										
16---	10	--	3	--	12	--	10,000	--	5	--
23---	8	--	2	--	8	--	5,500	--	2	--
May										
04---	22	<1	10	<1	80	1	71,000	20	5	<1
13---	14	--	9	--	29	--	29,000	--	3	--

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401829107375600 Deer Creek near Hamilton

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr										
16---	270	--	0.1	--	2	--	60	--	553	19
23---	150	--	.1	--	1	--	30	--	287	11
May										
04---	1600	47	.2	<0.1	3	1	330	13	6170	1380
13---	550	--	.2	--	1	--	140	--	2500	364

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401857107243500 South Fork of Williams Fork at mouth near Pagoda

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft³/s)	Specific conductance (μS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (μg/L as Al)	Aluminum, dissolved (μg/L as Al)	Arsenic, total (μg/L as As)	Arsenic, dissolved (μg/L as As)	Cadmium, total recoverable (μg/L as Cd)	Cadmium, dissolved (μg/L as Cd)
May 18---	388	261	7.7	6.0	0.158	3300	70	1	<1	<1	<1

Date	Chromium, total recoverable (μg/L as Cr)	Chromium, dissolved (μg/L as Cr)	Cobalt, total recoverable (μg/L as Co)	Cobalt, dissolved (μg/L as Co)	Copper, total recoverable (μg/L as Cu)	Copper, dissolved (μg/L as Cu)	Iron, total recoverable (μg/L as Fe)	Iron, dissolved (μg/L as Fe)	Lead, total recoverable (μg/L as Pb)	Lead, dissolved (μg/L as Pb)
May 18---	6	<1	2	<1	45	1	6500	97	13	1

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401857107243500 South Fork of Williams Fork at mouth near Pagoda

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
May										
18---	110	7	0.1	<0.1	1	1	40	49	377	395

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401925107523500 Collom Gulch near Axial

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
May											
04---	1.4	744	8.2	13.0	0.059	3000	20	2	1	<1	<1

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
May										
04---	3	<1	2	<1	10	2	4500	17	4	2

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401925107523500 Collom Gulch near Axial

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
May										
04---	300	79	0.1	<0.1	3	3	40	8	297	1.1

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401944107322900 Waddle Creek near Hamilton

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
May											
06---	16	536	8.1	9.0	0.413	9,400	20	4	1	<1	<1
13---	22	565	7.8	5.0	.374	10,000	--	4	--	<1	--
19---	19	582	7.9	9.5	.850	4,000	--	2	--	<1	--

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
May										
06---	14	<1	9	<1	27	1	22,000	19	8	1
13---	12	--	8	--	25	--	22,000	--	7	--
19---	21	--	3	--	10	--	7,800	--	5	--

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401944107322900 Waddle Creek near Hamilton

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (μg/L as Mn)	Manganese, dissolved (μg/L as Mn)	Mercury, total recoverable (μg/L as Hg)	Mercury, dissolved (μg/L as Hg)	Selenium, total (μg/L as Se)	Selenium, dissolved (μg/L as Se)	Zinc, total recoverable (μg/L as Zn)	Zinc, dissolved (μg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
May										
06---	780	55	0.1	<0.1	1	1	120	89	2780	120
13---	720	--	.2	--	1	--	120	--	2690	160
19---	260	--	.1	--	1	--	60	--	579	30

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401948107445600 Milk Creek near Iles Grove

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Apr											
23---	95	539	7.9	8.0	0.188	9,100	--	3	--	<1	--
May											
18---	297	402	7.6	9.5	2.90	27,000	30	10	1	<1	<1

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
Apr										
23---	9	--	6	--	19	--	16,000	--	5	--
May										
18---	12	<1	10	1	65	3	58,000	72	6	2

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

401948107445600 Milk Creek near Iles Grove

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr 23---	350	--	0.1	--	5	--	90	--	1950	500
May 18---	960	4	.3	<0.1	12	3	310	30	4290	3440

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402330107082000 Grassy Creek at Grassy Gap

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Apr											
01---	1.2	746	7.9	6.0	--	2,800	--	1	--	<1	--
14---	15	192	7.2	2.0	--	18,000	--	4	--	<1	--
21---	2.3	593	7.8	5.5	0.046	1,400	--	1	--	<1	--
27---	5.4	447	7.7	11.0	.226	6,400	60	2	1	<1	<1

Date	Chromium, total recoverable (µg/L as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
Apr										
01---	6	--	<10	--	10	--	3,400	--	<10	--
14---	12	--	5	--	26	--	23,000	--	4	--
21---	3	--	<1	--	4	--	1,500	--	<1	--
27---	9	<1	<1	<1	8	2	7,000	73	3	1

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402330107082000 Grassy Creek at Grassy Gap

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr										
01---	140	--	0.1	--	1	--	30	--	122	0.40
14---	440	--	.1	--	1	--	180	--	1040	42
21---	80	--	.1	--	1	--	20	--	57	.35
27---	90	22	.2	.2	1	1	40	10	111	1.6

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402530106585700 Fish Creek at mouth near Milner

Water-quality data, water year October 1974 to September 1975

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Cadmium, total recoverable (µg/L) as Cd)	Cadmium, suspended recoverable (µg/L) as Cd)	Cadmium, dissolved (µg/L) as Cd)	Cobalt, total recoverable (µg/L) as Co)	Cobalt, suspended recoverable (µg/L) as Co)	Cobalt, dissolved (µg/L) as Co)	Copper, total recoverable (µg/L as Cu)
Aug 30---	0.88	850	8.5	13.5	0.050	<20	<10	--	<100	<50	--	<20

Date	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Aug 30---	<8	2	370	360	<10	<200	<100	--	130	80	50

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402530106585700 Fish Creek at mouth near Milner

Water-quality data, water year October 1974 to September 1975

Date	Mercury, total recoverable (μg/L as Hg)	Mercury, suspended recoverable (μg/L as Hg)	Mercury, dissolved (μg/L as Hg)	Selenium, total (μg/L as Se)	Selenium, suspended total (μg/L as Se)	Selenium, dissolved (μg/L as Se)	Zinc, total recoverable (μg/L as Zn)	Zinc, suspended recoverable (μg/L as Zn)	Zinc, dissolved (μg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Aug 30---	<0.5	0.0	<0.5	<1	0	<1	<20	10	--	28	0.07

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402530106585700 Fish Creek at mouth near Milner

Water-quality data, water year October 1975 to September 1976

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Arsenic, total (µg/L) as As)	Arsenic, suspended total (µg/L) as As)	Arsenic, dissolved (µg/L) as As)	Cadmium, total recoverable (µg/L) as Cd)	Cadmium, suspended recoverable (µg/L as Cd)
Mar										
02---	E8.0	620	7.7	0.0	0.070	1	1	<1	<20	<9
Jun										
07---	11	540	8.8	20.0	.070	2	0	1	<20	<10
Aug										
31---	.03	900	8.6	23.0	.050	2	1	1	<20	<10

Date	Cadmium, dissolved (µg/L as Cd)	Cobalt, total recoverable (µg/L as Co)	Cobalt, suspended recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Mar									
02---	<2	<100	<50	--	<20	8	2	1500	1500
Jun									
07---	--	<100	<50	--	<20	<10	--	1700	1700
Aug									
31---	--	<100	<50	--	<20	<9	<2	530	510

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402530106585700 Fish Creek at mouth near Milner

Water-quality data, water year October 1975 to September 1976

Date	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury suspended recoverable (µg/L as Hg)
Mar 02---	<10	<200	<99	<2	80	40	40	<0.5	0.0
Jun 07---	40	<200	<100	--	50	40	<10	<.5	.0
Aug 31---	20	<200	<100	--	190	90	100	<.5	.0

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Mar 02---	<0.5	2	1	1	--	0	--	37	--
Jun 07---	<.5	<1	0	<1	30	20	<20	158	4.7
Aug 31---	<.5	<1	0	<1	--	0	--	44	.00

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402530106585700 Fish Creek at mouth near Milner

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instan-taneous (ft³/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Phos-phorus, total (mg/L as P)	Alum-inum, total recov-erable (µg/L as Al)	Alum-inum, dis-solved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dis-solved (µg/L as As)	Cadmium, total recov-erable (µg/L as Cd)	Cadmium, dis-solved (µg/L as Cd)
Apr											
14---	170	688	7.8	1.0	--	23,000	--	9	--	<1	--
22---	66	780	7.9	7.5	0.299	7,000	30	3	2	<1	<1
27---	100	594	8.1	6.0	.260	7,700	--	3	--	<1	--
28---	90	592	8.1	11.0	.292	7,700	--	3	--	<1	--
May											
07---	80	452	8.3	6.0	.175	6,000	--	3	--	<1	--

Date	Chro-mium, total recov-erable (µg/L as Cr)	Chro-mium, dis-solved (µg/L as Cr)	Cobalt, total recov-erable (µg/L as Co)	Cobalt, dis-solved (µg/L as Co)	Copper, total recov-erable (µg/L as Cu)	Copper, dis-solved (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)	Iron, dis-solved (µg/L as Fe)	Lead, total recov-erable (µg/L as Pb)	Lead, dis-solved (µg/L as Pb)
Apr										
14---	15	--	9	--	35	--	37,000	--	3	--
22---	11	<1	3	<1	35	3	11,000	92	5	<1
27---	10	--	4	--	22	--	12,000	--	8	--
28---	9	--	3	--	23	--	12,000	--	5	--
May										
07---	9	--	4	--	12	--	11,000	--	13	--

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402530106585700 Fish Creek at mouth near Milner

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr										
14---	810	--	0.1	--	2	--	150	--	2340	1070
22---	210	40	.1	<0.1	2	2	60	10	599	107
27---	220	--	.1	--	2	--	80	--	655	177
28---	230	--	.1	--	2	--	60	--	605	147
May										
07---	220	--	.1	--	1	--	70	--	506	109

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402605107181500 Dill Gulch near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Phos-phorus, total (mg/L as P)	Alum-inum, total recov-erable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recov-erable (µg/L as Cd)	Chro-mium, total recov-erable (µg/L as Cr)	Cobalt, total recov-erable (µg/L as Co)
Apr 21---	0.86	3480	8.2	4.0	0.090	380	2	<1	2	<1

Date	Copper, total recov-erable (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)	Lead, total recov-erable (µg/L as Pb)	Manga-nese, total recov-erable (µg/L as Mn)	Mercury, total recov-erable (µg/L as Hg)	Sele-nium, total (µg/L as Se)	Zinc, total recov-erable (µg/L as Zn)	Sedi-ment, sus-pended (mg/L)	Sedi-ment, dis-charge, sus-pended (ton/d)
Apr 21---	5	270	<1	30	0.1	120	20	11	0.03

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402720106591200 Trout Creek above Milner

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (μS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (μg/L as Al)	Aluminum, dissolved (μg/L as Al)	Arsenic, total (μg/L as As)	Arsenic, dissolved (μg/L as As)	Cadmium, total recoverable (μg/L as Cd)	Cadmium, dissolved (μg/L as Cd)
Apr											
28---	241	731	8.3	10.5	0.105	5800	20	3	1	<1	<1
May											
07---	236	546	8.0	--	.553	5800	--	3	--	<1	--

Date	Chromium, total recoverable (μg/L as Cr)	Chromium, dissolved (μg/L as Cr)	Cobalt, total recoverable (μg/L as Co)	Cobalt, dissolved (μg/L as Co)	Copper, total recoverable (μg/L as Cu)	Copper, dissolved (μg/L as Cu)	Iron, total recoverable (μg/L as Fe)	Iron, dissolved (μg/L as Fe)	Lead, total recoverable (μg/L as Pb)	Lead, dissolved (μg/L as Pb)
Apr										
28---	10	<1	3	<1	15	2	9700	28	3	<1
May										
07---	9	--	30	--	11	--	9000	--	2	--

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402720106591200 Trout Creek above Milner

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr 28---	230	40	0.1	<0.1	2	1	50	<3	457	297
May 07---	230	--	.1	--	1	--	40	--	392	250

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402829107193700 Smuin Gulch near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)
Mar 25---	2.8	3290	8.0	1.0	--	2200	2	<1	6	1
Apr 21---	.71	2860	8.2	2.0	0.282	2200	2	<1	2	<1

Date	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Selenium, total (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Mar 25---	7	1700	2	40	0.1	70	20	104	0.79
Apr 21---	6	1900	1	50	.1	70	20	110	.21

Table 3.--*Water-quality data collected at study sites in the southern Yampa River basin*--Continued

402836106550100 Cow Creek near Steamboat Springs

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Apr											
14---	12	406	7.8	4.0	--	1200	--	2	--	<1	--
21---	35	250	7.6	4.5	0.921	2600	--	2	--	<1	--
28---	48	164	7.9	7.5	.098	2600	70	2	1	<1	<1
May											
07---	30	194	8.0	4.0	.053	1800	--	1	--	<1	--

Date	Chromium, total recoverable (µg/L) as Cr)	Chromium, dissolved (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Cobalt, dissolved (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
Apr										
14---	3	--	<1	--	7	--	1500	--	1	--
21---	6	--	1	--	8	--	3700	--	2	--
28---	6	<1	1	<1	12	2	3200	59	<1	2
May										
07---	5	--	1	--	5	--	2100	--	2	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1978 to September 1979

Date	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Alum-inum, total recov-erable (µg/L as Al)	Alum-inum, sus-pended recov-erable (µg/L as Al)	Alum-inum, dis-solved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dis-solved (µg/L as As)	Cadmium, total recov-erable (µg/L as Cd)	Cadmium, sus-pended recov-erable (µg/L as Cd)	Cadmium, dis-solved (µg/L as Cd)
May 23---	34	410	7.7	11.5	2700	2600	80	1	1	--	0	<2
Jun 27---	3.8	355	7.9	18.0	--	--	--	--	--	--	--	--
Aug 15---	.60	700	8.2	18.0	260	260	<100	1	1	--	0	<2

Date	Copper, total recov-erable (µg/L as Cu)	Copper, sus-pended recov-erable (µg/L as Cu)	Copper, dis-solved (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)	Iron, sus-pended recov-erable (µg/L as Fe)	Iron, dis-solved (µg/L as Fe)	Lead, total recov-erable (µg/L as Pb)	Lead, sus-pended recov-erable (µg/L as Pb)	Lead, dis-solved (µg/L as Pb)	Manga-nese, total recov-erable (µg/L as Mn)	Manga-nese, sus-pended recov-erable (µg/L as Mn)	Manga-nese, dis-solved (µg/L as Mn)
May 23---	7	6	<2	3900	3700	160	33	33	--	180	100	80
Jun 27---	--	--	--	7200	7200	<10	--	--	--	140	120	20
Aug 15---	2	0	2	380	370	<10	3	3	--	130	10	120

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1978 to September 1979

Date	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
May											
23---	<0.1	0.0	<0.1	2	1	1	30	20	<20	267	25
Jun											
27---	--	--	--	--	--	--	--	--	--	416	4.3
Aug											
15---	<.1	.0	<.1	<1	0	<1	--	0	<3	36	.06

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Phos-phorus, total (mg/L as P)	Alum-inum, total recov-erable (µg/L as Al)	Alum-inum-sus-pended recov-erable (µg/L as Al)	Alum-inum, dis-solved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, sus-pended total (µg/L as As)
Mar										
25---	0.98	655	7.9	1.5	--	--	--	--	--	--
Apr										
15---	2.2	600	7.7	1.5	0.160	1500	--	--	1	--
21---	46	400	7.2	4.0	2.50	8900	--	--	10	--
22---	47	430	7.5	8.5	1.30	8000	8000	0	6	5
29---	42	380	--	13.0	.340	850	--	--	4	--
May										
28---	20	460	8.0	11.0	.080	130	--	--	2	--
Jun										
24---	2.5	650	8.1	17.0	--	--	--	--	--	--
Jul										
29---	.04	735	7.9	16.0	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek
Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dis-solved (µg/L as As)	Cadmium, total recov-erable (µg/L as Cd)	Cadmium, sus-pended recov-erable (µg/L as Cd)	Cadmium, dis-solved (µg/L as Cd)	Chro-mium, total recov-erable (µg/L as Cr)	Cobalt, total recov-erable (µg/L as Co)	Copper, total recov-erable (µg/L as Cu)	Copper, sus-pended recov-erable (µg/L as Cu)	Copper, dis-solved (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)
Mar										
25---	--	--	--	--	--	--	--	--	--	400
Apr										
15---	--	0	--	--	2	2	1	--	--	2,900
21---	--	1	--	--	1	20	31	--	--	52,000
22---	1	1	0	3	3	10	9	4	5	39,000
29---	--	2	--	--	--	3	10	--	--	7,400
May										
28---	--	1	--	--	1	1	1	--	--	420
Jun										
24---	--	--	--	--	--	--	--	--	--	400
Jul										
29---	--	--	--	--	--	--	--	--	--	340

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury suspended recoverable (µg/L as Hg)
Mar										
25---	390	<10	--	--	--	230	40	190	--	--
Apr										
15---	2,900	<10	4	--	--	400	210	190	0.0	--
21---	--	--	34	--	--	2400	--	--	.2	--
22---	39,000	50	29	29	0	1500	1400	70	.0	0.0
29---	--	--	11	--	--	320	--	--	.0	--
May										
28---	390	30	0	--	--	130	20	110	.1	--
Jun										
24---	380	20	--	--	--	180	40	140	--	--
Jul										
29---	330	10	--	--	--	110	0	320	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Mar									
25---	--	--	--	--	--	--	--	48	0.13
Apr									
15---	--	1	--	--	10	--	--	370	2.2
21---	--	2	--	--	420	--	--	4320	537
22---	0.0	0	0	1	170	120	50	2700	343
29---	--	1	--	--	60	--	--	670	76
May									
28---	--	0	--	--	20	--	--	69	3.7
Jun									
24---	--	--	--	--	--	--	--	65	.44
Jul									
29---	--	--	--	--	--	--	--	51	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Alum-inum, total recov-erable (µg/L as Al)	Alum-inum, sus-pended recov-erable (µg/L as Al)	Alum-inum, dis-solved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, sus-pended total (µg/L as As)	Arsenic, dis-solved (µg/L as As)	Cadmium, total recov-erable (µg/L as Cd)	Cadmium, dis-solved (µg/L as Cd)
Oct												
30---	0.68	810	8.0	2.0	--	--	--	--	--	--	--	--
Nov												
25---	.49	810	7.8	.5	--	--	--	--	--	--	--	--
Dec												
22---	.50	775	7.8	.0	50	30	20	--	--	--	--	--
Jan												
20---	.28	890	7.6	.0	--	--	--	--	--	--	--	--
Feb												
25---	.98	660	8.0	.0	--	--	--	--	--	--	--	--
Mar												
31---	1.6	655	8.4	2.0	--	--	--	--	--	--	--	--
Apr												
29---	.92	690	8.3	13.0	590	580	0	1	0	1	0	<1
May												
27---	.78	680	8.2	16.0	--	--	--	--	--	--	--	--
Jul												
01---	1.4	666	8.3	20.0	--	--	--	--	--	--	--	--
29---	.01	735	8.1	21.0	290	270	20	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Oct 30---	--	--	--	650	640	10	--	--	--	140	70	70
Nov 25---	--	--	--	180	--	<10	--	--	--	110	10	100
Dec 22---	--	--	--	180	160	20	3	1	2	110	0	110
Jan 20---	--	--	--	310	290	20	--	--	--	140	10	130
Feb 25---	--	--	--	1800	1700	80	--	--	--	220	70	150
Mar 31---	--	--	--	460	440	20	--	--	--	130	20	110
Apr 29---	4	2	2	740	--	<10	0	0	8	220	70	150
May 27---	--	--	--	900	890	10	--	--	--	160	60	100
Jul 01---	--	--	--	1200	1200	10	--	--	--	160	80	80
29---	--	--	--	950	910	37	5	5	0	390	110	280

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct											
30---	--	--	--	--	--	--	--	--	--	36	0.07
Nov											
25---	--	--	--	--	--	--	--	--	--	28	.04
Dec											
22---	--	--	--	--	--	--	20	20	<3	14	.02
Jan											
20---	--	--	--	--	--	--	--	--	--	31	.02
Feb											
25---	--	--	--	--	--	--	--	--	--	98	.26
Mar											
31---	--	--	--	--	--	--	--	--	--	37	.16
Apr											
29---	1.5	1.5	0.0	0	0	0	20	--	<3	76	.19
May											
27---	--	--	--	--	--	--	--	--	--	135	.28
Jul											
01---	--	--	--	--	--	--	--	--	--	99	.37
29---	--	--	--	--	--	--	20	0	14	87	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243700 Middle Creek near Oak Creek

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L) as Al)	Arsenic, total (µg/L) as As)	Cadmium, total recoverable (µg/L) as Cd)	Chromium, total recoverable (µg/L) as Cr)	Cobalt, total recoverable (µg/L as Co)
Apr										
14---	15	550	--	8.0	--	9,900	4	<1	21	5
May										
04---	41	380	--	10.0	0.620	14,000	5	1	27	7
18---	29	400	8.2	9.0	.203	2,600	3	1	11	3

Date	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Selenium, total (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr									
14---	19	15,000	10	670	0.1	1	90	847	34
May									
04---	23	24,000	11	1000	.2	1	120	1340	148
18---	6	4,400	5	230	.1	1	30	290	23

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1978 to September 1979

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Apr 09---	5.3	520	7.6	5.0	1500	1500	<100	2	1	3	3	--
Jun 29---	.04	769	7.2	15.0	--	--	--	--	--	--	--	--

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Apr 09---	12	10	2	2300	2300	50	29	23	6	60	40	20
Jun 29---	--	--	--	1100	970	130	--	--	--	340	80	260

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1978 to September 1979

Date	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr											
09---	<0.1	0.0	<0.1	1	0	2	40	30	<20	50	0.72
Jun											
29---	--	--	--	--	--	--	--	--	--	119	.01

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic suspended total (µg/L as As)
Mar										
25---	2.5	770	7.5	--	--	--	--	--	--	--
Apr										
10---	1.2	720	--	0.5	0.570	8900	--	--	4	--
15---	6.4	620	7.3	3.0	.540	4700	--	--	3	--
21---	56	210	7.5	3.0	1.30	9300	9300	40	5	4
22---	54	210	7.5	6.0	.880	6500	--	--	5	--
29---	12	450	--	13.5	.230	1300	--	--	2	--
May										
28---	2.6	625	8.2	15.0	--	--	--	--	--	--
Jun										
24---	.28	820	7.6	19.0	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dis- solved (µg/L as As)	Cadmium, total recov- erable (µg/L as Cd)	Cadmium, sus- pended recov- erable (µg/L as Cd)	Cadm ium, dis- solved (µg/L as Cd)	Chro- mium, total recov- erable (µg/L as Cr)	Cobalt, total recov- erable (µg/L as Co)	Copper, total recov- erable (µg/L as Cu)	Copper, sus- pended recov- erable (µg/L as Cu)	Copper, dis- solved (µg/L as Cu)	Iron, total recov- erable (µg/L as Fe)
Mar										
25---	--	--	--	--	--	--	--	--	--	17000
Apr										
10---	--	1	--	--	0	8	18	--	--	18000
15---	--	1	--	--	2	6	8	--	--	13000
21---	1	1	0	2	16	10	24	19	5	33000
22---	--	1	--	--	14	8	9	--	--	14000
29---	--	1	--	--	1	0	7	--	--	3200
May										
28---	--	--	--	--	--	--	--	--	--	1600
Jun										
24---	--	--	--	--	--	--	--	--	--	1700

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury suspended recoverable (µg/L as Hg)
Mar										
25---	17,000	110	--	--	--	400	290	110	--	--
Apr										
10---	--	--	10	--	--	360	--	--	0.1	--
15---	--	--	12	--	--	270	--	--	.0	--
21---	33,000	110	28	25	3	520	510	10	.1	.1
22---	--	--	20	--	--	330	--	--	--	--
29---	--	--	5	--	--	70	--	--	.1	--
May										
28---	1,600	10	--	--	--	100	40	60	--	--
Jun										
24---	--	<10	--	--	--	160	70	90	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Mercury, dis-solved (µg/L as Hg)	Sele-nium, total (µg/L as Se)	Sele-nium, sus-pended total (µg/L as Se)	Sele-nium, dis-solved (µg/L as Se)	Zinc, total recov-erable (µg/L as Zn)	Zinc, sus-pended recov-erable (µg/L as Zn)	Zinc, dis-solved (µg/L as Zn)	Sedi-ment, sus-pended (mg/L)	Sedi-ment, dis-charge, sus-pended (ton/d)
Mar									
25---	--	--	--	--	--	--	--	678	4.6
Apr									
10---	--	1	--	--	70	--	--	629	2.0
15---	--	1	--	--	80	--	--	429	7.4
21---	0.0	0	0	0	240	140	100	1660	251
22---	--	1	--	--	90	--	--	1070	156
29---	--	2	--	--	80	--	--	229	7.4
May									
28---	--	--	--	--	--	--	--	147	1.0
Jun									
24---	--	--	--	--	--	--	--	208	.16

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Oct												
30---	0.17	1030	7.6	5.0	--	--	--	--	--	--	--	--
Nov												
25---	.14	1040	7.5	2.0	--	--	--	--	--	--	--	--
Dec												
22---	.01	1140	7.1	1.0	70	60	10	--	--	--	--	--
Feb												
25---	1.8	1140	7.9	.5	--	--	--	--	--	--	--	--
Mar												
31---	.38	1020	8.1	6.0	--	--	--	--	--	--	--	--
Apr												
29---	.21	1070	8.1	17.0	160	140	20	1	0	1	0	<1
May												
27---	.18	1080	8.1	17.0	--	--	--	--	--	--	--	--
Jul												
01---	.01	1200	7.5	17.0	--	--	--	--	--	--	--	--
29---	.01	1250	7.7	20.5	150	130	20	--	--	--	--	--
Aug												
27---	.05	1330	7.6	11.0	--	--	--	--	--	--	--	--
Sep												
29---	.01	1300	7.6	11.0	--	--	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Oct												
30---	--	--	--	290	270	20	--	--	--	100	10	90
Nov												
25---	--	--	--	320	310	10	--	--	--	140	20	120
Dec												
22---	--	--	--	650	630	20	1	1	0	470	20	450
Feb												
25---	--	--	--	770	740	30	--	--	--	260	10	250
Mar												
31---	--	--	--	710	690	20	--	--	--	150	30	120
Apr												
29---	4	1	3	380	360	20	1	0	3	--	--	100
May												
27---	--	--	--	840	770	70	--	--	--	130	10	120
Jul												
01---	--	--	--	880	850	30	--	--	--	1500	0	1500
29---	--	--	--	630	610	21	5	5	0	360	80	280
Aug												
27---	--	--	--	1100	1100	21	--	--	--	360	30	330
Sep												
29---	--	--	--	670	640	32	--	--	--	350	40	310

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct											
30---	--	--	--	--	--	--	--	--	--	52	0.02
Nov											
25---	--	--	--	--	--	--	--	--	--	51	.02
Dec											
22---	--	--	--	--	--	--	20	20	3	39	.00
Feb											
25---	--	--	--	--	--	--	--	--	--	44	.21
Mar											
31---	--	--	--	--	--	--	--	--	--	39	.04
Apr											
29---	0.1	0.1	0.0	0	0	0	10	0	8	49	.03
May											
27---	--	--	--	--	--	--	--	--	--	62	.03
Jul											
01---	--	--	--	--	--	--	--	--	--	107	.00
29---	--	--	--	--	--	--	10	0	4	129	.00
Aug											
27---	--	--	--	--	--	--	--	--	--	110	.01
Sep											
29---	--	--	--	--	--	--	--	--	--	39	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Apr												
13---	9.4	690	--	12.0	2600	--	--	1	--	--	<1	--
14---	7.8	720	8.1	12.5	2000	3000	20	1	0	1	<1	<3
May												
18---	3.8	820	8.6	12.0	270	--	<10	1	0	1	<1	<3
Jun												
04---	1.8	1000	8.4	16.5	--	--	--	--	--	--	--	--
Jul												
20---	.18	1260	8.1	23.5	--	--	--	--	--	--	--	--
Sep												
29---	.25	1350	8.0	10.5	580	--	<10	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1981 to September 1982

Date	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)
Apr												
13---	11	2	6	--	--	3300	--	--	<1	--	--	120
14---	9	3	5	5	3	2500	2800	30	3	4	1	90
May												
18---	--	--	8	4	4	300	--	<9	3	1	2	70
Jun												
04---	--	--	--	--	--	460	430	28	--	--	--	70
Jul												
20---	--	--	--	--	--	1900	1900	11	--	--	--	590
Sep												
29---	--	--	--	--	--	1300	1300	22	7	0	11	670

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243800 Foidel Creek near Oak Creek

Water-quality data, water year October 1981 to September 1982

Date	Manganese, suspended recoverable (μg/L as Mn)	Manganese, dissolved (μg/L as Mn)	Mercury, total recoverable (μg/L as Hg)	Mercury, dissolved (μg/L as Hg)	Selenium, total (μg/L as Se)	Selenium, suspended total (μg/L as Se)	Selenium, dissolved (μg/L as Se)	Zinc, total recoverable (μg/L as Zn)	Zinc, suspended recoverable (μg/L as Zn)	Zinc, dissolved (μg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr												
13---	--	--	0.1	--	1	--	--	30	--	--	132	3.4
14---	50	37	.1	<0.1	1	0	2	20	--	<12	90	1.9
May												
18---	30	39	<.1	<.1	1	0	1	40	--	<12	22	.23
Jun												
04---	20	53	--	--	--	--	--	--	--	--	46	.22
Jul												
20---	80	510	--	--	--	--	--	--	--	--	265	.13
Sep												
29---	100	570	--	--	--	--	--	20	10	10	63	.04

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1978 to September 1979

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Mar 23---	10	1080	7.2	0.0	340	320	20	1	1	<2	1	--
Apr 09---	13	675	7.4	5.5	4200	4200	<100	2	1	5	4	<2
May 23---	6.0	650	7.8	13.0	410	410	<100	--	--	--	--	--
Jun 27---	1.1	1600	8.0	16.0	--	--	--	--	--	--	--	--
Aug 15---	.02	1900	8.0	16.0	270	270	<100	1	1	--	0	<2

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1978 to September 1979

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Mar 23---	5	5	--	520	450	70	12	12	--	150	30	120
Apr 09---	23	4	19	6300	6300	40	29	23	6	160	90	70
May 23--	--	--	--	650	640	<10	14	14	--	140	30	110
Jun 27---	--	--	--	340	270	70	--	--	--	200	20	180
Aug 15---	2	0	2	460	430	30	3	3	--	1400	0	1500

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1978 to September 1979

Date	Mercury, total recoverable (μg/L as Hg)	Mercury, suspended recoverable (μg/L as Hg)	Mercury, dissolved (μg/L as Hg)	Selenium, total (μg/L as Se)	Selenium, suspended total (μg/L as Se)	Selenium, dissolved (μg/L as Se)	Zinc, total recoverable (μg/L as Zn)	Zinc, suspended recoverable (μg/L as Zn)	Zinc, dissolved (μg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Mar 23---	<0.1	0.0	<0.1	2	1	1	20	0	<20	106	2.9
Apr 09---	<.1	.1	<.1	2	1	1	90	60	30	291	11
May 23---	--	--	--	--	--	--	30	20	<20	60	.98
Jun 27---	--	--	--	--	--	--	--	--	--	9	.03
Aug 15---	<.1	.0	<.1	1	0	1	<20	0	<3	101	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)
Nov										
05---	0.03	1420	8.0	5.5	--	--	--	--	--	--
Dec										
10---	.19	1520	7.7	3.0	--	20	0	0	--	--
Mar										
27---	.55	1250	7.3	.5	--	--	--	--	--	--
Apr										
10---	23	1000	--	.5	0.470	8,500	--	--	3	--
15---	8.8	910	7.5	3.5	--	3,300	--	--	3	--
17---	27	810	--	8.5	.970	4,900	--	--	3	--
21---	82	430	7.3	7.0	2.10	20,000	20,000	20	10	9
22---	76	400	7.2	8.5	1.90	13,000	--	--	16	--
29---	31	770	--	12.5	.360	350	--	--	3	--
May										
28---	6.1	710	8.1	15.0	--	--	--	--	--	--
Jun										
24---	4.3	2950	8.0	18.5	--	--	--	--	--	--
Jul										
29---	.08	1390	7.9	20.0	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Nov									
05---	--	--	--	--	--	--	--	380	--
Dec									
10---	--	--	--	--	--	--	--	440	400
Mar									
27---	--	--	--	--	--	--	--	1,300	1,300
Apr									
10---	--	0	--	--	6	6	12	12,000	--
15---	--	1	--	--	4	5	6	9,200	9,200
17---	--	0	--	--	--	6	12	12,000	--
21---	1	1	0	1	20	20	31	55,000	--
22---	--	2	--	--	1	20	23	68,000	--
29---	--	1	--	--	0	2	10	7,400	--
May									
28---	--	--	--	--	--	--	--	1,700	1,700
Jun									
24---	--	--	--	--	--	--	--	970	940
Jul									
29---	--	--	--	--	--	--	--	1,000	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury suspended recoverable (µg/L as Hg)
Nov									
05---	30	--	--	--	610	30	580	--	--
Dec									
10---	40	5	5	0	750	0	800	--	--
Mar									
27---	20	--	--	--	260	30	230	--	--
Apr									
10---	--	5	--	--	550	--	--	0.0	--
15---	20	11	--	--	360	190	170	.0	--
17---	--	8	--	--	420	--	--	.1	--
21---	--	43	40	3	1400	--	--	.1	.1
22---	--	55	--	--	1800	--	--	--	--
29---	--	9	--	--	180	--	--	.0	--
May									
28---	30	--	--	--	140	40	100	--	--
Jun									
24---	30	--	--	--	200	40	160	--	--
Jul									
29---	<10	--	--	--	280	40	240	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1979 to September 1980

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Nov									
05---	--	--	--	--	--	--	--	65	0.00
Dec									
10---	--	--	--	--	0	0	9	36	.02
Mar									
27---	--	--	--	--	--	--	--	74	.11
Apr									
10---	--	1	--	--	40	--	--	568	35
15---	--	1	--	--	50	--	--	402	9.6
17---	--	2	--	--	70	--	--	302	22
21---	0.0	2	1	1	250	--	--	2250	498
22---	--	1	--	--	330	--	--	3290	675
29---	--	5	--	--	80	--	--	394	33
May									
28---	--	--	--	--	--	--	--	180	3.0
Jun									
24---	--	--	--	--	--	--	--	134	1.6
Jul									
29---	--	--	--	--	--	--	--	87	.02

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)
Oct										
02---	0.01	1930	7.7	8.0	270	270	0	2	1	1
30---	.30	1650	7.7	6.0	--	--	--	--	--	--
Nov										
25---	.32	1600	7.7	3.0	--	--	--	--	--	--
Dec										
22---	.22	1560	7.6	.5	70	60	10	--	--	--
Feb										
25---	3.2	1040	7.8	.5	--	--	--	--	--	--
Mar										
06---	1.0	760	7.9	1.0	5200	--	--	--	--	--
16---	1.3	1050	7.8	6.0	4500	--	--	--	--	--
31---	1.1	1350	8.2	4.0	--	--	--	--	--	--
Apr										
08---	1.4	1200	--	7.0	1000	--	--	--	--	--
29---	.17	1330	8.2	16.0	2200	2200	20	1	0	1
May										
27---	.82	1310	8.1	18.0	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Oct									
02---	0	<1	--	--	4	1	3	790	780
30---	--	--	--	--	--	--	--	540	510
Nov									
25---	--	--	--	--	--	--	--	490	480
Dec									
22---	--	--	--	--	--	--	--	510	480
Feb									
25---	--	--	--	--	--	--	--	2300	2200
Mar									
06---	1	--	16	6	12	--	--	7300	--
16---	0	--	10	5	8	--	--	6600	--
31---	--	--	--	--	--	--	--	3600	3600
Apr									
08---	0	--	11	2	8	--	--	5900	--
29---	0	<1	--	--	7	4	3	2600	--
May									
27---	--	--	--	--	--	--	--	2100	2100

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Iron, dissolved (μg/L as Fe)	Lead, total recoverable (μg/L as Pb)	Lead, suspended recoverable (μg/L as Pb)	Lead, dissolved (μg/L as Pb)	Manganese, total recoverable (μg/L as Mn)	Manganese, suspended recoverable (μg/L as Mn)	Manganese, dissolved (μg/L as Mn)	Mercury, total recoverable (μg/L as Hg)	Mercury suspended recoverable (μg/L as Hg)
Oct									
02---	10	5	3	2	400	80	320	0.0	0.0
30---	30	--	--	--	610	0	610	--	--
Nov									
25---	10	--	--	--	810	40	770	--	--
Dec									
22---	30	2	0	2	800	50	750	--	--
Feb									
25---	90	--	--	--	430	40	390	--	--
Mar									
06---	--	17	--	--	510	--	--	.1	--
16---	--	2	--	--	450	--	--	--	--
31---	20	--	--	--	360	100	260	--	--
Apr									
08---	--	3	--	--	290	--	--	--	--
29---	<10	0	0	3	410	120	290	.1	.1
May									
27---	20	--	--	--	380	90	290	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09243900 Foidel Creek at mouth, near Oak Creek

Water-quality data, water year October 1980 to September 1981

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct									
02---	0.0	1	0	1	10	--	<3	116	0.00
30---	--	--	--	--	--	--	--	54	.04
Nov									
25---	--	--	--	--	--	--	--	81	.07
Dec									
22---	--	--	--	--	60	60	<3	75	.04
Feb									
25---	--	--	--	--	--	--	--	502	4.3
Mar									
06---	--	--	--	--	50	--	--	549	1.5
16---	--	--	--	--	30	--	--	246	.86
31---	--	--	--	--	--	--	--	204	.61
Apr									
08---	--	--	--	--	40	--	--	236	.89
29---	.0	0	0	1	20	--	<3	179	.08
May									
27---	--	--	--	--	--	--	--	331	.73

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244415 Sage Creek above Sage Creek Reservoir, near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic suspended total (µg/L as As)	Arsenic dissolved (µg/L as As)
Jan										
28---	0.04	905	8.0	0.0	--	--	--	--	--	--
Mar										
06---	.09	860	7.9	.0	--	--	--	--	--	--
31---	.08	935	8.2	2.0	--	--	--	--	--	--
Apr										
15---	.57	660	7.9	10.5	7,700	7700	40	4	3	1
29---	.21	770	8.2	15.5	--	--	--	--	--	--
May										
27---	1.0	710	7.6	13.0	50,000	--	--	10	--	--
Jun										
24---	.06	700	8.2	19.0	--	--	--	--	--	--
Jul										
23---	.04	760	8.2	14.5	260	240	20	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244415 Sage Creek above Sage Creek Reservoir, near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Jan									
28---	--	--	--	--	--	--	--	3,100	3,100
Mar									
06---	--	--	--	--	--	--	--	3,100	2,800
31---	--	--	--	--	--	--	--	1,700	1,700
Apr									
15---	0	<1	--	--	15	13	2	19,000	19,000
29---	--	--	--	--	--	--	--	1,700	1,700
May									
27---	1	--	54	0	250	--	--	190,000	190,000
Jun									
24---	--	--	--	--	--	--	--	1,500	--
Jul									
23---	--	--	--	--	--	--	--	1,300	1,300

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244415 Sage Creek above Sage Creek Reservoir, near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Iron, dissolved (μg/L as Fe)	Lead, total recoverable (μg/L as Pb)	Lead, suspended recoverable (μg/L as Pb)	Lead, dissolved (μg/L as Pb)	Manganese, total recoverable (μg/L as Mn)	Manganese, suspended recoverable (μg/L as Mn)	Manganese, dissolved (μg/L as Mn)	Mercury, total recoverable (μg/L as Hg)	Mercury suspended recoverable (μg/L as Hg)
Jan									
28---	10	--	--	--	400	70	330	--	--
Mar									
06---	260	--	--	--	280	40	240	--	--
31---	20	--	--	--	250	50	200	--	--
Apr									
15---	40	17	15	2	410	340	70	0.1	0.1
29---	20	--	--	--	160	60	100	--	--
May									
27---	10	90	--	--	4100	4100	40	.3	--
Jun									
24---	<10	--	--	--	130	80	50	--	--
Jul									
23---	10	1	0	2	100	60	40	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244415 Sage Creek above Sage Creek Reservoir, near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Jan									
28---	--	--	--	--	--	--	--	133	0.01
Mar									
06---	--	--	--	--	--	--	--	154	.04
31---	--	--	--	--	--	--	--	121	.03
Apr									
15---	0.0	0	0	0	90	--	<3	906	1.4
29---	--	--	--	--	--	--	--	120	.07
May									
27---	--	3	--	--	1000	--	--	11,300	31
Jun									
24---	--	--	--	--	--	--	--	112	.02
Jul									
23---	--	--	--	--	30	20	10	108	.01

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244415 Sage Creek above Sage Creek Reservoir, near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)
Apr												
13---	1.3	450	--	2.0	--	13,000	--	--	3	--	--	<1
14---	6.3	320	7.5	.5	--	19,000	22,000	170	5	7	1	<1
28---	6.9	340	--	11.0	0.270	6,600	--	--	1	--	--	<1
28---	7.2	340	--	11.0	.250	4,200	--	--	1	--	--	<1
29---	4.0	410	8.2	3.5	.180	2,000	--	--	3	--	--	<1
May												
04---	12	360	--	10.0	.220	2,800	--	--	1	--	--	<1
18---	4.1	430	8.5	12.0	--	260	240	20	1	0	1	<1
Jun												
04---	1.7	510	8.4	11.0	--	--	--	--	--	--	--	--
Jul												
20---	--	622	8.4	20.0	--	--	--	--	--	--	--	--
Sep												
29---	E.01	1000	8.4	8.0	--	200	180	20	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244415 Sage Creek above Sage Creek Reservoir, near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)
Apr												
13---	--	28	5	23	--	--	17,000	--	--	10	--	--
14---	<3	31	8	38	35	3	30,000	32,000	210	8	12	2
28---	--	16	3	10	--	--	7,700	--	--	4	--	--
28---	--	16	2	8	--	--	6,200	--	--	4	--	--
29---	--	9	2	5	--	--	2,800	--	--	<1	--	--
May												
04---	--	12	1	6	--	--	4,200	--	--	3	--	--
18---	<3	--	--	7	3	4	340	--	<9	1	--	<1
Jun												
04---	--	--	--	--	--	--	870	840	29	--	--	--
Jul												
20---	--	--	--	--	--	--	430	400	28	--	--	--
Sep												
29---	--	--	--	--	--	--	600	520	85	3	0	4

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244415 Sage Creek above Sage Creek Reservoir, near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr												
13---	400	--	--	0.1	--	<1	--	100	--	--	810	2.8
14---	870	690	43	.2	<0.1	1	<1	150	--	<12	1660	28
28---	120	--	--	.3	--	<1	--	40	--	--	281	5.2
28---	120	--	--	.2	--	1	--	40	--	--	253	4.9
29---	90	--	--	.2	--	1	--	20	--	--	142	1.5
May												
04---	130	--	--	.2	--	1	--	50	--	--	183	5.9
18---	30	10	17	<.1	<.1	<1	<1	20	--	<12	26	.29
Jun												
04---	90	50	43	--	--	--	--	--	--	--	42	.19
Jul												
20---	40	10	27	--	--	--	--	--	--	--	50	.01
Sep												
29---	100	20	80	--	--	--	--	30	20	8	18	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1978 to September 1979

Date	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Sediment, suspended (mg/L)
Jun										
29---	1250	7.6	20.5	760	670	90	330	50	280	107

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic suspended total (µg/L as As)
Nov										
05---	0.02	1070	8.0	5.5	--	--	--	--	--	--
Apr										
01---	.01	1050	7.8	3.5	--	--	--	--	--	--
15---	.08	825	7.5	2.5	0.120	300	--	--	1	--
22---	2.0	744	7.6	--	.180	180	160	20	1	0
25---	78	--	--	--	.120	230	--	--	1	--
May										
28---	.22	875	7.6	14.5	--	--	--	--	--	--
Jun										
24---	.05	980	7.7	13.5	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dissolved (μg/L as As)	Cadmium, total recoverable (μg/L as Cd)	Cadmium, dissolved (μg/L as Cd)	Chromium, total recoverable (μg/L as Cr)	Cobalt, total recoverable (μg/L as Co)	Copper, total recoverable (μg/L as Cu)	Copper, suspended recoverable (μg/L as Cu)	Copper, dissolved (μg/L as Cu)	Iron, total recoverable (μg/L as Fe)	Iron, suspended recoverable (μg/L as Fe)
Nov										
05---	--	--	--	--	--	--	--	--	600	--
Apr										
01---	--	--	--	--	--	--	--	--	2100	2100
15---	--	1	--	0	0	0	--	--	1000	970
22---	1	1	<1	4	2	5	0	22	1600	1600
25---	--	0	--	1	0	4	--	--	630	--
May										
28---	--	--	--	--	--	--	--	--	420	390
Jun										
24---	--	--	--	--	--	--	--	--	310	290

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury suspended recoverable (µg/L as Hg)
Nov									
05---	10	--	--	--	60	30	30	--	--
Apr									
01---	10	--	--	--	150	140	10	--	--
15---	30	2	--	--	80	60	20	0.0	--
22---	10	5	4	1	70	50	20	.0	.0
25---	--	4	--	--	20	--	--	.0	--
May									
28---	30	--	--	--	40	20	20	--	--
Jun									
24---	20	--	--	--	40	20	20	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Nov									
05---	--	--	--	--	--	--	--	34	0.00
Apr									
01---	--	--	--	--	--	--	--	44	.00
15---	--	1	--	--	10	--	--	93	.02
22---	0.0	1	0	1	20	10	7	61	.33
25---	--	1	--	--	20	--	--	52	11
May									
28---	--	--	--	--	--	--	--	49	.03
Jun									
24---	--	--	--	--	--	--	--	87	.01

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Oct												
30---	0.09	1040	7.6	5.5	--	--	--	--	--	--	--	--
Nov												
26---	.08	1000	7.6	4.5	--	--	--	--	--	--	--	--
Jan												
07---	.04	1110	7.4	4.0	410	390	20	--	--	--	--	--
28---	.03	1010	8.0	5.0	--	--	--	--	--	--	--	--
Mar												
06---	.02	825	7.8	1.5	--	--	--	--	--	--	--	--
Apr												
01---	.02	1010	8.1	5.0	--	--	--	--	--	--	--	--
28---	.03	1000	7.8	7.0	190	190	0	1	0	1	0	<1
May												
28---	.03	995	7.8	7.0	--	--	--	--	--	--	--	--
Jun												
24---	.02	1020	7.8	9.0	--	--	--	--	--	--	--	--
Jul												
23---	.02	1030	7.9	10.0	40	30	10	--	--	--	--	--
Aug												
10---	.01	1030	8.0	10.0	--	--	--	--	--	--	--	--
Sep												
23---	.01	1040	7.9	10.0	--	--	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Oct												
30---	--	--	--	920	890	30	--	--	--	100	70	30
Nov												
26---	--	--	--	460	--	<10	--	--	--	50	20	30
Jan												
07---	--	--	--	1200	1200	20	3	3	0	470	440	30
28---	--	--	--	620	610	10	--	--	--	60	40	20
Mar												
06---	--	--	--	440	380	60	--	--	--	50	0	50
Apr												
01---	--	--	--	440	430	10	--	--	--	50	30	20
28---	4	2	2	550	530	20	0	0	3	40	30	10
May												
28---	--	--	--	260	240	20	--	--	--	30	10	20
Jun												
24---	--	--	--	200	190	10	--	--	--	20	10	10
Jul												
23---	--	--	--	170	160	10	2	0	2	20	0	20
Aug												
10---	--	--	--	130	--	<10	--	--	--	20	8	12
Sep												
23---	--	--	--	130	120	10	--	--	--	20	6	14

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244460 Watering Trough Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct											
30---	--	--	--	--	--	--	--	--	--	51	0.01
Nov											
26---	--	--	--	--	--	--	--	--	--	48	.01
Jan											
07---	--	--	--	--	--	--	50	40	10	29	.00
28---	--	--	--	--	--	--	--	--	--	48	.00
Mar											
06---	--	--	--	--	--	--	--	--	--	35	.00
Apr											
01---	--	--	--	--	--	--	--	--	--	18	.00
28---	0.0	0.0	0.0	1	0	1	20	10	9	60	.00
May											
28---	--	--	--	--	--	--	--	--	--	44	.00
Jun											
24---	--	--	--	--	--	--	--	--	--	18	.00
Jul											
23---	--	--	--	--	--	--	10	0	20	19	.00
Aug											
10---	--	--	--	--	--	--	--	--	--	34	.00
Sep											
23---	--	--	--	--	--	--	--	--	--	48	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1978 to September 1979

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (μS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (μg/L as Al)	Aluminum, suspended recoverable (μg/L as Al)	Aluminum, dissolved (μg/L as Al)	Arsenic, total (μg/L as As)	Arsenic, dissolved (μg/L as As)	Cadmium, total recoverable (μg/L as Cd)	Cadmium, suspended recoverable (μg/L as Cd)	Cadmium, dissolved (μg/L as Cd)
Apr 27---	E0.30	825	7.9	14.0	4400	4400	40	1	1	--	0	<2
Jun 29---	--	1220	7.8	24.0	--	--	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1978 to September 1979

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)
Apr 27---	6	3	3	5200	5100	60	38	36	2	110	60
Jun 29---	--	--	--	3000	2900	60	--	--	--	70	40

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1978 to September 1979

Date	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)
Apr 27---	50	<0.1	0.0	<0.1	1	0	1	40	40	<3	161
Jun 29---	30	--	--	--	--	--	--	--	--	--	55

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (μS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (μg/L as Al)	Aluminum, suspended recoverable (μg/L as Al)	Aluminum, dissolved (μg/L as Al)	Arsenic, total (μg/L as As)	Arsenic, suspended total (μg/L as As)
Feb										
20---	--	1290	8.0	1.5	--	530	520	10	1	0
Apr										
01---	0.20	1520	8.1	3.0	--	--	--	--	--	--
15---	2.8	725	7.7	1.0	3.90	--	--	30	36	35
16---	5.0	680	--	1.5	3.30	13,000	--	--	20	--
16---	--	--	--	--	2.90	17,000	--	--	15	--
20---	43	340	7.4	1.0	2.70	11,000	11,000	30	23	22
21---	33	345	7.8	5.0	3.10	8,400	--	--	14	--
22---	32	370	7.8	8.0	2.50	15,000	--	--	16	--
25---	4.4	--	--	--	.440	2,500	--	--	3	--
May										
01---	6.8	560	--	6.5	.310	2,400	--	--	4	--
28---	2.2	750	8.4	19.0	--	--	--	--	--	--
Jun										
24---	.58	1000	8.2	24.5	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dis-solved (µg/L as As)	Cadmium, total recov-erable (µg/L as Cd)	Cadmium, sus-pended recov-erable (µg/L as Cd)	Cadmium, dis-solved (µg/L as Cd)	Chro-mium, total recov-erable (µg/L as Cr)	Cobalt, total recov-erable (µg/L as Co)	Copper, total recov-erable (µg/L as Cu)	Copper, sus-pended recov-erable (µg/L as Cu)	Copper, dis-solved (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)
Feb										
20---	1	1	0	<1	--	--	11	8	3	2,000
Apr										
01---	--	--	--	--	--	--	--	--	--	1,700
15---	1	2	--	--	4	40	250	250	2	190,000
16---	--	1	--	--	1	40	110	--	--	90,000
16---	--	0	--	--	2	20	42	--	--	100,000
20---	1	1	0	3	30	10	120	110	10	9,600
21---	--	1	--	--	2	30	48	--	--	66,000
22---	--	1	--	--	1	30	100	--	--	74,000
25---	--	1	--	--	8	2	13	--	--	10,000
May										
01---	--	0	--	--	1	5	11	--	--	9,600
28---	--	--	--	--	--	--	--	--	--	860
Jun										
24---	--	--	--	--	--	--	--	--	--	380

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury suspended recoverable (µg/L as Hg)
Feb										
20---	1600	430	21	18	3	230	10	220	0.0	0.0
Apr										
01---	1700	<10	--	--	--	210	40	170	--	--
15---	--	--	170	170	0	3300	--	--	.4	.4
16---	--	--	81	--	--	1800	--	--	.2	--
16---	--	--	36	--	--	2000	--	--	.2	--
20---	9500	130	98	96	2	1900	1900	30	.2	.2
21---	--	--	51	--	--	1200	--	--	.2	--
22---	--	--	55	--	--	1200	--	--	.2	--
25---	--	--	11	--	--	160	--	--	.2	--
May										
01---	--	--	8	--	--	170	--	--	.1	--
28---	820	40	--	--	--	60	20	40	--	--
Jun										
24---	360	20	--	--	--	60	10	50	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Feb									
20---	0.0	1	0	1	30	20	10	55	--
Apr									
01---	--	--	--	--	--	--	--	92	0.05
15---	.0	3	2	1	890	--	--	10,200	77
16---	--	4	--	--	490	--	--	4,660	63
16---	--	3	--	--	570	--	--	5,410	--
20---	.0	2	2	0	520	510	10	6,600	766
21---	--	2	--	--	320	--	--	4,280	381
22---	--	2	--	--	370	--	--	5,010	433
25---	--	1	--	--	70	--	--	405	4.8
May									
01---	--	1	--	--	50	--	--	430	7.9
28---	--	--	--	--	--	--	--	64	.38
Jun									
24---	--	--	--	--	--	--	--	94	.15

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Alum-inum, total recov-erable (µg/L as Al)	Alum-inum, sus-pended recov-erable (µg/L as Al)	Alum-inum, dis-solved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, sus-pended total (µg/L as As)	Arsenic, dis-solved (µg/L as As)
Oct										
02---	0.03	1750	7.9	15.0	130	130	0	2	1	1
30---	.14	1360	8.0	3.0	--	--	--	--	--	--
Nov										
26---	.02	1490	7.5	3.0	--	--	--	--	--	--
Jan										
07---	.08	1320	7.6	1.0	230	210	20	--	--	--
28---	.02	1570	7.5	7.0	--	--	--	--	--	--
Mar										
06---	.17	922	8.0	1.0	--	--	--	--	--	--
Apr										
01---	.30	1090	8.3	.5	920	--	--	2	--	--
28---	.14	1200	8.2	13.0	730	720	0	1	0	1
May										
28---	.14	1140	8.2	15.0	--	--	--	--	--	--
Jun										
24---	.05	1450	8.0	22.0	--	--	--	--	--	--
Jul										
23---	.01	1570	7.9	23.0	320	300	20	--	--	--
Aug										
10---	.01	1560	7.8	16.0	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Oct									
02---	0	<1	--	--	5	0	6	690	670
30---	--	--	--	--	--	--	--	2900	--
Nov									
26---	--	--	--	--	--	--	--	2200	2200
Jan									
07---	--	--	--	--	--	--	--	630	610
28---	--	--	--	--	--	--	--	1600	1500
Mar									
06---	--	--	--	--	--	--	--	800	760
Apr									
01---	1	--	11	3	13	--	--	9700	--
28---	0	<1	--	--	5	4	1	1100	--
May									
28---	--	--	--	--	--	--	--	130	120
Jun									
24---	--	--	--	--	--	--	--	2100	--
Jul									
23---	--	--	--	--	--	--	--	2100	2100
Aug									
10---	--	--	--	--	--	--	--	190	170

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)
Oct									
02---	20	3	1	2	370	40	330	0.0	0.0
30---	<10	--	--	--	220	50	170	--	--
Nov									
26---	20	--	--	--	960	80	880	--	--
Jan									
07---	20	6	6	0	60	0	--	--	--
28---	60	--	--	--	2000	0	2100	--	--
Mar									
06---	40	--	--	--	210	0	230	--	--
Apr									
01---	<10	6	--	--	310	180	130	0.1	--
28---	<10	0	0	2	230	30	200	.0	.0
May									
28---	10	--	--	--	160	30	130	--	--
Jun									
24---	<10	--	--	--	370	90	280	--	--
Jul									
23---	20	1	0	1	1300	100	1200	--	--
Aug									
10---	18	--	--	--	1300	0	1300	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct									
02---	0.0	2	0	2	20	20	5	59	0.00
30---	--	--	--	--	--	--	--	939	.35
Nov									
26---	--	--	--	--	--	--	--	117	.00
Jan									
07---	--	--	--	--	30	20	9	97	.02
28---	--	--	--	--	--	--	--	29	.00
Mar									
06---	--	--	--	--	--	--	--	57	.03
Apr									
01---	--	3	--	--	80	--	--	598	.48
28---	.0	0	0	1	50	40	6	136	.05
May									
28---	--	--	--	--	--	--	--	173	.07
Jun									
24---	--	--	--	--	--	--	--	140	.02
Jul									
23---	--	--	--	--	40	10	30	211	.00
Aug									
10---	--	--	--	--	--	--	--	92	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)
Apr										
13---	8.5	570	--	8.5	--	71,000	11	<1	51	9
13---	14	420	--	4.5	--	83,000	12	<1	20	1
14---	5.7	650	--	11.0	--	41,000	8	<1	24	<1
28---	5.0	490	--	14.0	>1.10	29,000	4	<1	22	8
29---	4.2	500	8.3	5.0	.430	9,600	2	1	18	5
May										
04---	7.5	420	--	10.0	.640	15,000	4	<1	26	4
18---	3.4	520	--	13.0	.140	2,100	1	<1	11	7

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244464 Hubberson Gulch near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Selenium, total (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr									
13---	130	110,000	<1	1800	0.3	1	560	6900	158
13---	15	150,000	2	2500	.3	<1	710	8390	317
14---	4	72,000	<1	1300	.2	1	360	4460	69
28---	58	54,000	16	660	.2	1	260	2800	38
29---	15	140,000	3	260	.2	<1	70	607	6.9
May									
04---	23	27,000	3	420	.2	1	130	1220	25
18---	6	2,900	2	90	.1	1	20	99	.91

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244470 Stokes Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Stream-flow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)
Apr										
20---	419	980	7.6	5.5	1.60	10,000	9900	60	8	4
20---	320	960	7.6	--	1.60	10,000	--	--	8	--
20---	444	820	7.6	--	2.00	11,000	--	--	9	--
25---	16	1650	--	12.0	.470	6,500	--	--	3	--
May										
01---	4.9	3400	--	11.5	.120	1,400	--	--	3	--

Date	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)
Apr										
20---	4	1	1	0	--	20	37	34	3	41,000
20---	--	3	--	--	0	5	27	--	--	37,000
20---	--	2	--	--	2	10	40	--	--	49,000
25---	--	1	--	--	12	3	16	--	--	13,000
May										
01---	--	0	--	--	1	1	6	--	--	1,200

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244470 Stokes Gulch near Hayden

Water-quality data, water year October 1979 to September 1980

Date	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)
Apr										
20---	41,000	40	35	35	0	570	560	10	0.1	0.1
20---	--	--	32	--	--	500	--	--	.1	--
20---	--	--	39	--	--	620	--	--	.1	--
25---	--	--	14	--	--	160	--	--	.0	--
May										
01---	--	--	2	--	--	40	--	--	.1	--

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr									
20---	0.0	27	3	24	220	210	10	1790	2030
20---	--	28	--	--	200	--	--	1590	1370
20---	--	24	--	--	270	--	--	1900	2280
25---	--	26	--	--	70	--	--	257	11
May									
01---	--	79	--	--	30	--	--	59	.78

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244470 Stokes Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (μS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (μg/L as Al)	Aluminum, suspended recoverable (μg/L as Al)	Aluminum, dissolved (μg/L as Al)	Arsenic, total (μg/L as As)	Arsenic, suspended total (μg/L as As)	Arsenic, dissolved (μg/L as As)	Cadmium, total recoverable (μg/L as Cd)	Cadmium, suspended recoverable (μg/L as Cd)
Apr												
01---	0.12	10,000	8.6	8.5	60	50	10	1	0	2	1	1
May												
13---	1.0	7,340	8.4	12.0	--	--	--	--	--	--	--	--
28---	.25	9,970	8.4	17.0	--	--	--	--	--	--	--	--

Date	Cadmium, dissolved (μg/L as Cd)	Copper, total recoverable (μg/L as Cu)	Copper, suspended recoverable (μg/L as Cu)	Copper, dissolved (μg/L as Cu)	Iron, total recoverable (μg/L as Fe)	Iron, suspended recoverable (μg/L as Fe)	Iron, dissolved (μg/L as Fe)	Lead, total recoverable (μg/L as Pb)	Lead, suspended recoverable (μg/L as Pb)	Lead, dissolved (μg/L as Pb)	Manganese, total recoverable (μg/L as Mn)	Manganese, suspended recoverable (μg/L as Mn)
Apr												
01---	0	9	4	5	120	20	100	0	0	0	30	0
May												
13---	--	--	--	--	110	40	70	--	--	--	20	0
28---	--	--	--	--	80	10	70	--	--	--	20	0

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244470 Stokes Gulch near Hayden

Water-quality data, water year October 1980 to September 1981

Date	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr												
01---	30	0.1	0.0	0.1	270	0	300	30	10	20	56	0.02
May												
13---	30	--	--	--	--	--	--	--	--	--	22	.06
28---	30	--	--	--	--	--	--	--	--	--	37	.03

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244470 Stokes Gulch near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
Apr									
13---	25	2500	9.5	7,000	2	<1	21	2	11
13---	33	2600	10.0	9,800	3	<1	25	4	13
14---	11	--	12.5	21,000	3	<1	25	7	18
14---	41	1780	11.0	31,000	5	<1	28	8	33
14---	59	1780	11.0	21,000	3	1	27	8	25

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09244470 Stokes Gulch near Hayden

Water-quality data, water year October 1981 to September 1982

Date	Iron, total recov-erable (µg/L as Fe)	Lead, total recov-erable (µg/L as Pb)	Manga-nese, total recov-erable (µg/L as Mn)	Mercury, total recov-erable (µg/L as Hg)	Sele-nium, total (µg/L as Se)	Zinc, total recov-erable (µg/L as Zn)	Sedi-ment, sus-pended (mg/L)	Sedi-ment, dis-charge, sus-pended (ton/d)
Apr								
13---	6,800	6	100	0.1	42	40	201	14
13---	9,300	<1	110	.2	45	50	319	28
14---	15,000	6	170	.2	27	70	464	14
14---	30,000	4	260	.2	26	140	745	82
14---	19,000	8	190	.2	38	90	1110	177

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250507 Wilson Creek above Taylor Creek near Axial

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)
Apr										
01---	1.4	1670	8.2	11.0	37,000	--	--	5	--	--
28---	1.2	1780	8.1	19.5	8,000	8000	30	3	1	2

Date	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Apr									
01---	1	--	24	20	80	--	--	46,000	46,000
28---	0	<1	--	--	32	28	4	17,000	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250507 Wilson Creek above Taylor Creek near Axial

Water-quality data, water year October 1980 to September 1981

Date	Iron, dis- solved (µg/L as Fe)	Lead, total recov- erable (µg/L as Pb)	Lead, sus- pended recov- erable (µg/L as Pb)	Lead, dis- solved (µg/L as Pb)	Manga- nese, total recov- erable (µg/L as Mn)	Manga- nese, sus- pended recov- erable (µg/L as Mn)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, total recov- erable (µg/L as Hg)	Mercury, sus- pended recov- erable (µg/L as Hg)
Apr									
01---	60	46	--	--	1200	1200	30	0.2	--
28---	<10	14	11	3	500	480	20	.1	0.1

Date	Mercury, dis- solved (µg/L as Hg)	Sele- nium, total (µg/L as Se)	Sele- nium, sus- pended total (µg/L as Se)	Sele- nium, dis- solved (µg/L as Se)	Zinc, total recov- erable (µg/L as Zn)	Zinc, sus- pended recov- erable (µg/L as Zn)	Zinc, dis- solved (µg/L as Zn)	Sedi- ment, sus- pended (mg/L)	Sedi- ment, dis- charge, sus- pended (ton/d)
Apr									
01---	--	6	--	--	330	--	--	3890	15
28---	0.0	6	0	9	110	100	10	1310	4.2

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250507 Wilson Creek above Taylor Creek near Axial

Water-quality data, water year October 1981 to September 1982

Date	Stream-flow, instantaneous (ft³/s)	Specific conductance (µS/cm)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)
Apr									
12---	1.4	--	--	--	30,000	8	<1	27	20
May									
19---	13	1100	9.5	>1.10	100,000	15	<1	44	3
21---	16	--	--	>1.10	77,000	14	<1	36	10

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250507 Wilson Creek above Taylor Creek near Axial

Water-quality data, water year October 1981 to September 1982

Date	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Selenium, total (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Apr									
12---	56	46,000	27	1500	0.2	6	340	3,640	14
May									
19---	320	170,000	<1	5400	.3	3	1200	18,700	645
21---	200	110,000	3	3100	.3	2	770	14,100	626

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1978 to September 1979

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)
Oct												
25---	0.28	1950	8.2	5.5	--	--	--	--	--	--	--	--
Apr												
17---	.03	490	7.9	8.5	1,200	1,200	20	1	--	1	--	0
May												
09---	.01	1450	8.3	9.0	370	370	<100	--	--	--	--	--
21---	2.4	960	7.6	19.0	13,000	13,000	20	1	--	2	--	0
Sep												
06---	.01	1380	8.5	13.0	110	110	<100	1	<1	1	--	0

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1978 to September 1979

Date	Cadmium, dissolved (µg/L as Cd)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)
Oct												
25---	--	--	--	--	27,000	27,000	110	--	--	--	840	810
Apr												
17---	<2	6	6	--	1,400	1,200	250	22	22	--	40	20
May												
09---	--	--	--	--	3,200	3,200	20	44	44	--	120	90
21---	--	23	22	<2	14,000	14,000	<10	23	23	--	470	320
Sep												
06---	<2	2	1	<2	110	--	<10	5	5	--	<10	9

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1978 to September 1979

Date	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct												
25---	30	--	--	--	--	--	--	--	--	--	15,300	12
Apr												
17---	20	<0.1	0.1	<0.1	1	1	<1	20	20	<3	193	0.02
May												
09---	30	--	--	--	--	--	--	40	0	50	304	.00
21---	150	<0.1	0.1	<0.1	6	0	6	100	90	<20	3,730	24
Sep												
06---	<1	<0.1	0.0	<0.1	<1	0	1	<20	0	<3	15	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1979 to September 1980

Date	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (µS/cm)	pH (stand-ard units)	Temper-ature (°C)	Phos-phorus, total (mg/L as P)	Alum-inum, total recov-erable (µg/L as Al)	Alum-inum, sus-pended recov-erable (µg/L as Al)	Alum-inum, dis-solved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, sus-pended total (µg/L as As)
Nov										
08---	0.01	1340	8.5	1.0	--	--	--	--	--	--
Mar										
19---	.15	1220	8.3	6.0	--	--	--	--	--	--
Apr										
14---	.06	1400	8.1	16.0	0.450	11,000	--	--	3	--
May										
05---	.18	1350	--	22.5	1.10	27,000	--	--	6	--
19---	4.2	1010	8.2	14.0	.240	2,300	2300	30	3	1
22---	4.5	975	--	19.5	--	4,100	--	--	2	--
Jun										
05---	2.8	1080	8.1	12.0	.070	1,000	--	--	--	--
25---	1.3	1180	7.9	18.0	--	--	--	--	--	--
Jul										
30---	.26	1250	8.2	17.5	--	--	--	--	--	--
Aug										
26---	.20	1250	8.2	20.5	--	770	760	10	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)
Nov									
08---	--	--	--	--	--	--	--	--	370
Mar									
19---	--	--	--	--	--	--	--	--	23,000
Apr									
14---	--	1	--	6	6	15	--	--	13,000
May									
05---	--	1	--	1	20	50	--	--	31,000
19---	2	0	<1	1	5	13	10	3	6,700
22---	--	1	--	0	4	44	--	--	4,300
Jun									
05---	--	1	--	2	2	7	--	--	1,900
25---	--	--	--	--	--	--	--	--	1,400
Jul									
30---	--	--	--	--	--	--	--	--	100
Aug									
26---	--	--	--	--	--	--	--	--	1,100

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1979 to September 1980

Date	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)
Nov									
08---	--	10	--	--	--	50	20	30	--
Mar									
19---	23,000	<10	--	--	--	890	770	120	--
Apr									
14---	13,000	<10	8	--	--	500	460	40	0.0
May									
05---	--	--	32	--	--	1000	--	--	.1
19---	--	<10	10	8	2	250	210	40	.1
22---	--	--	8	--	--	190	--	--	.1
Jun									
05---	--	--	4	--	--	120	--	--	--
25---	--	<10	--	--	--	70	60	10	--
Jul									
30---	--	<10	--	--	--	0	--	<1	--
Aug									
26---	--	<10	4	4	0	40	40	3	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1979 to September 1980

Date	Mercury, suspended recoverable (μg/L as Hg)	Mercury, dissolved (μg/L as Hg)	Selenium, total (μg/L as Se)	Selenium, suspended total (μg/L as Se)	Selenium, dissolved (μg/L as Se)	Zinc, total recoverable (μg/L as Zn)	Zinc, dissolved (μg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Nov									
08---	--	--	--	--	--	--	--	73	0.00
Mar									
19---	--	--	--	--	--	--	--	1530	.62
Apr									
14---	--	--	2	--	--	110	--	762	.12
May									
05---	--	--	5	--	--	210	--	2090	1.0
19---	0.1	0.0	5	1	4	60	<3	933	11
22---	--	--	2	--	--	110	--	602	7.3
Jun									
05---	--	--	--	--	--	40	--	253	1.9
25---	--	--	--	--	--	--	--	365	1.3
Jul									
30---	--	--	--	--	--	--	--	22	.02
Aug									
26---	--	--	--	--	--	50	<3	122	.07

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (μS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (μg/L as Al)	Aluminum, suspended recoverable (μg/L as Al)	Aluminum, dissolved (μg/L as Al)	Arsenic, total (μg/L as As)	Arsenic, suspended total (μg/L as As)	Arsenic, dissolved (μg/L as As)
Oct										
29---	0.17	1340	8.2	4.0	--	--	--	--	--	--
Nov										
26---	.14	1400	8.0	.5	--	--	--	--	--	--
Dec										
23---	.40	1410	8.0	.0	180	160	20	--	--	--
Feb										
24---	.03	730	8.3	.0	--	--	--	--	--	--
Apr										
01---	.08	1080	8.6	10.5	740	--	--	0	--	--
28---	.02	1350	8.4	22.5	340	330	10	1	0	1
May										
29---	.04	1300	8.3	15.5	--	--	--	--	--	--
Jun										
12---	.12	1680	8.0	25.5	270,000	--	--	70	--	--
Jul										
26---	.14	1360	--	17.0	51,000	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1980 to September 1981

Date	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)
Oct									
29---	--	--	--	--	--	--	--	1,100	1,100
Nov									
26---	--	--	--	--	--	--	--	400	370
Dec									
23---	--	--	--	--	--	--	--	1,100	1,000
Feb									
24---	--	--	--	--	--	--	--	490	450
Apr									
01---	1	--	13	0	14	--	--	7,300	7,200
28---	0	<1	--	--	6	4	2	470	450
May									
29---	--	--	--	--	--	--	--	250	230
Jun									
12---	20	--	32	140	350	--	--	290,000	290,000
Jul									
26---	0	--	42	30	160	--	--	63,000	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1980 to September 1981

Date	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)
Oct									
29---	10	--	--	--	110	50	60	--	--
Nov									
26---	30	--	--	--	130	30	100	--	--
Dec									
23---	70	3	1	2	160	50	110	--	--
Feb									
24---	40	--	--	--	90	10	80	--	--
Apr									
01---	70	5	--	--	270	240	30	0.1	--
28---	20	0	0	3	30	30	5	.3	.3
May									
29---	20	--	--	--	20	10	9	--	--
Jun									
12---	50	120	--	--	11,000	11,000	60	3.1	--
Jul									
26---	--	65	--	--	1,700	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250510 Taylor Creek at mouth near Axial

Water-quality data, water year October 1980 to September 1981

Date	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct									
29---	--	--	--	--	--	--	--	166	0.08
Nov									
26---	--	--	--	--	--	--	--	66	.02
Dec									
23---	--	--	--	--	20	10	6	132	.14
Feb									
24---	--	--	--	--	--	--	--	38	.00
Apr									
01---	--	3	--	--	60	--	--	541	.12
28---	0.0	1	0	1	20	10	8	34	.00
May									
29---	--	--	--	--	--	--	--	21	.00
Jun									
12---	--	0	--	--	2000	--	--	25,100	8.1
Jul									
26---	--	--	--	--	410	--	--	3,690	1.4

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1978 to September 1979

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)
Nov 09---	0.31	2060	8.4	10.0	180	160	20	--	--	--	--	--
May 09---	18	1000	8.0	6.0	23,000	23,000	80	17	--	1	--	0
Sep 06---	.81	1700	8.1	11.0	150	150	<100	1	<1	1	--	0

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1978 to September 1979

Date	Cadmium, dis-solved (µg/L as Cd)	Copper, total recov-erable (µg/L as Cu)	Copper, sus-pended recov-erable (µg/L as Cu)	Copper, dis-solved (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)	Iron, sus-pended recov-erable (µg/L as Fe)	Iron, dis-solved (µg/L as Fe)	Lead, total recov-erable (µg/L as Pb)	Lead, sus-pended recov-erable (µg/L as Pb)	Lead, dis-solved (µg/L as Pb)	Manga-nese, total recov-erable (µg/L as Mn)	Manga-nese, sus-pended recov-erable (µg/L as Mn)
Nov 09---	--	--	--	--	240	230	<10	19	17	2	520	420
May 09---	--	31	31	--	37,000	37,000	40	35	35	--	1300	1200
Sep 06---	<2	2	0	2	150	--	<10	6	6	--	30	0

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1978 to September 1979

Date	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Nov												
09---	100	--	--	--	--	--	--	<20	0	20	36	0.03
May												
09---	90	0.4	0.4	<0.1	5	2	3	250	230	20	3440	167
Sep												
06---	50	<.1	.0	<.1	10	0	11	30	20	<20	27	.06

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)
Feb										
19---	17	309	7.8	0.5	--	220	0	1400	20	18
May										
06---	11	850	--	12.0	3.70	20,000	--	--	19	--
19---	34	800	7.7	12.0	8.00	36,000	36,000	360	38	36

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dis-solved (μg/L as As)	Cadmium, total recov-erable (μg/L as Cd)	Cadmium, sus-pended recov-erable (μg/L as Cd)	Cadmium, dis-solved (μg/L as Cd)	Chro-mium, total recov-erable (μg/L as Cr)	Cobalt, total recov-erable (μg/L as Co)	Copper, total recov-erable (μg/L as Cu)	Copper, sus-pended recov-erable (μg/L as Cu)	Copper, dis-solved (μg/L as Cu)	Iron, total recov-erable (μg/L as Fe)
Feb										
19---	2	4	4	0	--	--	130	130	3	79,000
May										
06---	--	5	--	--	0	90	270	--	--	150,000
19---	2	0	0	1	1	30	380	380	2	200,000

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)
Feb										
19---	79,000	40	0	0	0	3000	3000	10	0.2	0.2
May										
06---	--	--	210	--	--	5500	--	--	.7	--
19---	200,000	10	0	0	0	9100	9000	80	1.4	1.4

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Mercury, dissolved (μg/L as Hg)	Selenium, total (μg/L as Se)	Selenium, suspended total (μg/L as Se)	Selenium, dissolved (μg/L as Se)	Zinc, total recoverable (μg/L as Zn)	Zinc, suspended recoverable (μg/L as Zn)	Zinc, dissolved (μg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Feb									
19---	0.0	3	2	1	650	640	10	5,480	252
May									
06---	--	7	--	--	1100	--	--	17,800	529
19---	.0	18	13	5	0	0	10	37,200	3410

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250600 Wilson Creek near Axial

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)
Jun 12---	E2.1	1700	24.0	14,000	3	29	10

09250600 Wilson Creek near Axial

Water-quality data, water year October 1980 to September 1981

Date	Copper, total recoverable (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)
Jun 12---	46	27,000	10	700	130	1780

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1978 to September 1979

Date	Stream-flow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)
May												
09---	0.06	1400	8.1	8.0	230	210	20	1	--	1	2	1
18---	.02	1500	8.0	23.5	--	--	--	--	--	--	--	--
Jun												
25---	.16	1350	7.6	20.0	--	--	--	--	--	--	--	--
Jul												
23---	.11	1470	8.5	17.5	--	--	--	--	--	--	--	--
Sep												
06---	.01	1500	8.3	9.0	170	170	<100	1	<1	1	--	0

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1978 to September 1979

Date	Cadmium, dis-solved (µg/L as Cd)	Copper, total recov-erable (µg/L as Cu)	Copper, sus-pended recov-erable (µg/L as Cu)	Copper, dis-solved (µg/L as Cu)	Iron, total recov-erable (µg/L as Fe)	Iron, sus-pended recov-erable (µg/L as Fe)	Iron, dis-solved (µg/L as Fe)	Lead, total recov-erable (µg/L as Pb)	Lead, sus-pended recov-erable (µg/L as Pb)	Lead, dis-solved (µg/L as Pb)	Manga-nese, total recov-erable (µg/L as Mn)	Manga-nese, sus-pended recov-erable (µg/L as Mn)
May												
09---	<2	--	0	--	230	220	<10	9	9	--	<10	8
18---	--	--	--	--	270	250	20	--	--	--	<10	0
Jun												
25---	--	--	--	--	120	0	130	--	--	--	<10	0
Jul												
23---	--	--	--	--	2100	2100	<10	--	--	--	130	100
Sep												
06---	<2	2	0	4	80	--	<10	2	2	--	<10	8

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1978 to September 1979

Date	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
May												
09---	2	0.2	0.2	<0.1	2	0	2	20	0	20	1	0.00
18---	<10	--	--	--	--	--	--	--	--	--	1	.00
Jun												
25---	<1	--	--	--	--	--	--	--	--	--	21	.00
Jul												
23---	30	--	--	--	--	--	--	--	--	--	4	.00
Sep												
06---	2	<.1	.0	<.1	1	0	1	<20	0	<3	43	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Stream-flow, instantaneous (ft^3/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)
Nov 08---	0.02	1480	8.3	1.0	--	--	--	--	--	--
Feb 19---	5.6	550	7.9	.5	--	5800	5700	70	3	2
Mar 19---	.09	1750	8.2	.0	--	--	--	--	--	--
Apr 14---	.06	1680	8.2	9.5	0.020	150	--	--	--	--
May 19---	2.0	1200	8.2	17.5	.010	100	80	20	1	0
Jun 25---	1.1	1400	7.8	18.5	--	--	--	--	--	--
Jul 30---	.42	1600	8.2	15.5	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, suspended recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)
Nov										
08---	--	--	--	--	--	--	--	--	--	40
Feb										
19---	1	1	0	<1	--	--	15	12	3	7900
Mar										
19---	--	--	--	--	--	--	--	--	--	340
Apr										
14---	--	0	--	--	--	1	3	--	--	180
May										
19---	1	0	--	<1	4	1	4	1	3	140
Jun										
25---	--	--	--	--	--	--	--	--	--	510
Jul										
30---	--	--	--	--	--	--	--	--	--	100

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)
Nov 08---	--	<10	--	--	--	8	6	2	--	--
Feb 19---	7900	40	12	12	0	160	150	10	0.0	0.0
Mar 19---	320	20	--	--	--	10	8	2	--	--
Apr 14---	170	<10	0	--	--	0	0	<1	--	--
May 19---	--	<10	2	1	1	10	--	<1	.1	.1
Jun 25---	--	<10	--	--	--	20	--	<3	--	--
Jul 30---	--	<10	--	--	--	10	--	<1	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1979 to September 1980

Date	Mercury, dis-solved (µg/L as Hg)	Sele-nium, total (µg/L as Se)	Sele-nium, sus-pended total (µg/L as Se)	Sele-nium, dis-solved (µg/L as Se)	Zinc, total recov-erable (µg/L as Zn)	Zinc, sus-pended recov-erable (µg/L as Zn)	Zinc, dis-solved (µg/L as Zn)	Sedi-ment, sus-pended (mg/L)	Sedi-ment, dis-charge, sus-pended (ton/d)
Nov									
08---	--	--	--	--	--	--	--	0	0.00
Feb									
19---	0.0	1	0	1	70	70	<3	314	4.7
Mar									
19---	--	--	--	--	--	--	--	23	.00
Apr									
14---	--	--	--	--	30	--	--	5	.00
May									
19---	.0	5	0	5	20	--	<3	10	.05
Jun									
25---	--	--	--	--	--	--	--	26	.07
Jul									
30---	--	--	--	--	--	--	--	44	.05

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1980 to September 1981

Date	Streamflow, instantaneous (ft³/s)	Specific conductance (µS/cm)	pH (standard units)	Temperature (°C)	Aluminum, total recoverable (µg/L as Al)	Aluminum, suspended recoverable (µg/L as Al)	Aluminum, dissolved (µg/L as Al)	Arsenic, total (µg/L as As)	Arsenic, suspended total (µg/L as As)	Arsenic, dissolved (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Cadmium, dissolved (µg/L as Cd)
Oct												
29---	0.19	1700	8.0	1.0	--	--	--	--	--	--	--	--
Nov												
26---	.01	2200	7.8	.0	--	--	--	--	--	--	--	--
Dec												
23---	.66	1540	7.8	.0	20	0	20	--	--	--	--	--
Feb												
24---	.14	1490	8.2	.0	--	--	--	--	--	--	--	--
Apr												
01---	.29	1440	8.3	.0	--	--	--	--	--	--	--	--
28---	.04	1700	8.3	23.0	70	60	0	1	0	2	0	<1
May												
29---	.19	1700	8.2	13.0	--	--	--	--	--	--	--	--
Jun												
25---	.14	1740	8.3	17.0	--	--	--	--	--	--	--	--
Jul												
15---	.05	1740	8.4	16.5	80	60	20	--	--	--	--	--
Aug												
07---	.06	1710	8.6	26.0	--	--	--	--	--	--	--	--
Sep												
17---	.11	1770	8.5	9.5	--	--	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1980 to September 1981

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Oct												
29---	--	--	--	90	--	<10	--	--	--	20	20	2
Nov												
26---	--	--	--	210	160	50	--	--	--	20	0	20
Dec												
23---	--	--	--	60	40	20	2	0	2	20	10	10
Feb												
24---	--	--	--	110	90	20	--	--	--	10	0	10
Apr												
01---	--	--	--	240	230	10	--	--	--	40	10	30
28---	4	0	5	110	--	<10	0	0	2	10	6	4
May												
29---	--	--	--	50	40	10	--	--	--	10	4	6
Jun												
25---	--	--	--	160	--	<10	--	--	--	10	5	5
Jul												
15---	--	--	--	90	70	20	0	0	1	10	7	3
Aug												
07---	--	--	--	40	--	<10	--	--	--	10	7	3
Sep												
17---	--	--	--	40	--	<10	--	--	--	10	8	2

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250610 Jubb Creek near Axial

Water-quality data, water year October 1980 to September 1981

Date	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Oct											
29---	--	--	--	--	--	--	--	--	--	24	0.01
Nov											
26---	--	--	--	--	--	--	--	--	--	53	.00
Dec											
23---	--	--	--	--	--	--	20	20	3	9	.02
Feb											
24---	--	--	--	--	--	--	--	--	--	13	.00
Apr											
01---	--	--	--	--	--	--	--	--	--	44	.03
28---	0.0	0.0	0.0	1	0	1	10	0	10	28	.00
May											
29---	--	--	--	--	--	--	--	--	--	22	.01
Jun											
25---	--	--	--	--	--	--	--	--	--	61	.02
Jul											
15---	--	--	--	--	--	--	10	0	10	18	.00
Aug											
07---	--	--	--	--	--	--	--	--	--	11	.00
Sep											
17---	--	--	--	--	--	--	--	--	--	14	.00

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250700 Morgan Gulch near Axial

Water-quality data, water year October 1980 to September 1981

Date	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (μS/cm)	pH (stand-ard units)	Temper-ature (°C)	Alum-inum, total recov-erable (μg/L as Al)	Alum-inum, sus-pended recov-erable (μg/L as Al)	Alum-inum, dis-solved (μg/L as Al)	Arsenic, total (μg/L as As)	Arsenic, sus-pended total (μg/L as As)	Arsenic, dis-solved (μg/L as As)	Cadmium, total recov-erable (μg/L as Cd)	Cadmium, dis-solved (μg/L as Cd)
Jan												
21---	0.62	1690	8.2	0.0	--	--	--	--	--	--	--	--
Feb												
24---	.68	1480	8.3	.0	--	--	--	--	--	--	--	--
Apr												
01---	1.6	1550	8.4	14.0	--	--	--	--	--	--	--	--
28---	1.2	1550	8.3	21.5	620	620	0	1	0	2	0	<1
May												
29---	1.9	1520	8.2	13.5	--	--	--	--	--	--	--	--
Jun												
25---	.27	1500	8.2	16.0	--	--	--	--	--	--	--	--
Jul												
15---	.59	1500	8.2	15.0	610	590	20	--	--	--	--	--
Aug												
07---	.38	1450	8.4	22.5	--	--	--	--	--	--	--	--
Sep												
17---	.24	1480	8.3	11.0	--	--	--	--	--	--	--	--

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250700 Morgan Gulch near Axial

Water-quality data, water year October 1980 to September 1981

Date	Copper, total recoverable (µg/L as Cu)	Copper, suspended recoverable (µg/L as Cu)	Copper, dissolved (µg/L as Cu)	Iron, total recoverable (µg/L as Fe)	Iron, suspended recoverable (µg/L as Fe)	Iron, dissolved (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Lead, suspended recoverable (µg/L as Pb)	Lead, dissolved (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Manganese, suspended recoverable (µg/L as Mn)	Manganese, dissolved (µg/L as Mn)
Jan												
21---	--	--	--	1500	1500	10	--	--	--	70	40	30
Feb												
24---	--	--	--	350	330	20	--	--	--	40	10	30
Apr												
01---	--	--	--	680	600	80	--	--	--	50	30	20
28---	4	3	1	170	160	10	0	0	3	30	10	20
May												
29---	--	--	--	160	140	20	--	--	--	30	10	20
Jun												
25---	--	--	--	150	140	10	--	--	--	30	10	20
Jul												
15---	--	--	--	590	570	20	2	1	1	50	30	20
Aug												
07---	--	--	--	180	170	11	--	--	--	20	5	15
Sep												
17---	--	--	--	350	--	<10	--	--	--	30	10	17

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250700 Morgan Gulch near Axial

Water-quality data, water year October 1980 to September 1981

Date	Mercury, total recoverable (µg/L as Hg)	Mercury, suspended recoverable (µg/L as Hg)	Mercury, dissolved (µg/L as Hg)	Selenium, total (µg/L as Se)	Selenium, suspended total (µg/L as Se)	Selenium, dissolved (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Zinc, suspended recoverable (µg/L as Zn)	Zinc, dissolved (µg/L as Zn)	Sediment, suspended (mg/L)	Sediment, discharge, suspended (ton/d)
Jan											
21---	--	--	--	--	--	--	--	--	--	176	0.29
Feb											
24---	--	--	--	--	--	--	--	--	--	95	.17
Apr											
01---	--	--	--	--	--	--	--	--	--	179	.77
28---	0.0	0.0	0.0	1	0	1	20	10	10	404	1.3
May											
29---	--	--	--	--	--	--	--	--	--	331	1.7
Jun											
25---	--	--	--	--	--	--	--	--	--	27	.02
Jul											
15---	--	--	--	--	--	--	30	20	10	101	.16
Aug											
07---	--	--	--	--	--	--	--	--	--	25	.03
Sep											
17---	--	--	--	--	--	--	--	--	--	35	.02

Table 4.--*Summary of selected water-quality data collected at surface-water gaging stations in the southern Yampa River basin*--Continued

09250700 Morgan Gulch near Axial

Water-quality data, water year October 1981 to September 1982

Date	Specific conductance (µS/cm)	Aluminum, total recoverable (µg/L as Al)	Arsenic, total (µg/L as As)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
Apr 12---	1650	1600	2	<1	10	<1	7

Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury, total recoverable (µg/L as Hg)	Selenium, total (µg/L as Se)	Zinc, total recoverable (µg/L as Zn)	Sediment, suspended (mg/L)
Apr 12---	1700	<1	80	0.1	1	30	159

Table 5.--*Statistical summary of water-quality data collected at selected surface-water gaging stations in the southern Yampa River basin*

09244410 Yampa River below diversion, near Hayden

Parameter	N	Mean	Standard deviation	Minimum value	Maximum value	Standard error of mean
Streamflow, instantaneous (ft^3/s)	125	1240.78	1846.08	38.90	7300.00	165.12
Specific conductance (µS/cm)	113	265.40	115.83	50.00	600.00	10.90
pH (standard units)	88	7.76	0.44	6.80	8.60	0.05
Temperature (°C)	118	7.27	6.04	0.00	21.00	0.56
Phosphorus, total (mg/L as P)	81	0.07	0.05	0.01	0.24	0.01
Aluminum, total recoverable (µg/L as Al)	18	392.22	423.98	50.00	1300.00	99.93
Aluminum, suspended recoverable (µg/L as Al)	14	243.57	301.75	40.00	1200.00	80.65
Aluminum, dissolved (µg/L as Al)	15	48.00	36.10	10.00	100.00	9.32
Arsenic, total (µg/L as As)	18	1.22	0.43	1.00	2.00	0.10
Arsenic, suspended total (µg/L as As)	13	0.92	0.28	0.00	1.00	0.08
Arsenic, dissolved (µg/L as As)	15	1.40	0.91	1.00	4.00	0.24
Cadmium, total recoverable (µg/L as Cd)	19	8.63	9.97	0.00	20.00	2.29
Cadmium, suspended recoverable (µg/L as C)	13	6.08	5.79	0.00	18.00	1.61
Cadmium, dissolved (µg/L as Cd)	16	1.56	1.55	0.00	6.00	0.39
Chromium, total recoverable (µg/L as Cr)	18	6.39	8.71	0.00	20.00	2.05
Chromium, suspended recoverable (µg/L as Cr)	14	0.71	2.67	0.00	10.00	0.71
Chromium, dissolved (µg/L as Cr)	15	4.60	8.12	0.00	20.00	2.10
Cobalt, total recoverable (µg/L as Co)	1	100.00	-----	100.00	100.00	-----
Cobalt, suspended recoverable (µg/L as C)	1	50.00	-----	50.00	50.00	-----
Cobalt, dissolved (µg/L as Co)	1	0.00	-----	0.00	0.00	-----
Copper, total recoverable (µg/L as Cu)	19	12.68	9.89	0.00	37.00	2.27
Copper, suspended recoverable (µg/L as C)	16	6.69	8.34	0.00	35.00	2.09
Copper, dissolved (µg/L as Cu)	16	4.13	4.57	0.00	20.00	1.14
Iron, total recoverable (µg/L as Fe)	10	365.00	209.62	70.00	660.00	66.29
Iron, suspended recoverable (µg/L as Fe)	2	80.00	98.99	10.00	150.00	70.00
Iron, dissolved (µg/L as Fe)	80	97.42	59.47	20.00	310.00	6.65
Lead, total recoverable (µg/L as Pb)	19	103.63	107.20	0.00	300.00	24.59
Lead, suspended recoverable (µg/L as Pb)	16	124.62	244.83	0.00	1000.00	61.21
Lead, dissolved (µg/L as Pb)	16	4.81	8.20	0.00	30.00	2.05
Manganese, total recoverable (µg/L as Mn)	19	46.32	18.62	10.00	80.00	4.27
Manganese, suspended recoverable (µg/L as Mn)	15	19.33	16.24	0.00	50.00	4.19
Manganese, dissolved (µg/L as Mn)	16	22.50	10.00	10.00	40.00	2.50
Mercury, total recoverable (µg/L as Hg)	19	0.43	0.46	0.00	2.10	0.11
Mercury, suspended recoverable (µg/L as Hg)	15	0.08	0.23	0.00	0.90	0.06
Mercury, dissolved (µg/L as Hg)	16	0.44	0.34	0.00	1.20	0.09
Selenium, total (µg/L as Se)	19	0.89	0.32	0.00	1.00	0.07
Selenium, suspended total (µg/L as Se)	15	0.20	0.41	0.00	1.00	0.11
Selenium, dissolved (µg/L as Se)	16	0.88	0.34	0.00	1.00	0.09
Zinc, total recoverable (µg/L as Zn)	18	35.56	31.48	10.00	110.00	7.42
Zinc, suspended recoverable (µg/L as Zn)	13	14.62	20.25	0.00	70.00	5.62
Zinc, dissolved (µg/L as Zn)	15	18.40	15.67	0.00	50.00	4.05
Sediment, suspended (mg/L)	87	48.76	87.05	0.00	648.00	9.33
Sediment, discharge, suspended (ton/d)	85	280.60	607.44	0.00	2650.00	65.89

Table 5.--Statistical summary of water-quality data collected at selected surface-water gaging stations in the southern Yampa River basin--Continued

09246550 Yampa River below Elkhead Creek near Craig

Parameter	N	Mean	Standard deviation	Minimum value	Maximum value	Standard error of mean
Streamflow, instantaneous (ft^3/s)	38	1662.24	2671.22	70.00	9900.00	433.33
Specific conductance (µS/cm)	62	328.97	126.49	80.00	650.00	16.06
pH (standard units)	60	7.81	0.44	6.90	8.70	0.06
Temperature (°C)	63	8.30	7.29	0.00	22.00	0.93
Phosphorus, total (mg/L as P)	61	0.08	0.10	0.01	0.59	0.01
Aluminum, total recoverable (µg/L as Al)	14	727.14	1056.87	70.00	3800.00	282.46
Aluminum, suspended recoverable (µg/L as Al)	14	719.29	1060.78	50.00	3800.00	283.51
Aluminum, dissolved (µg/L as Al)	15	44.67	36.03	10.00	100.00	9.30
Arsenic, total (µg/L as As)	15	1.27	0.46	1.00	2.00	0.12
Arsenic, suspended total (µg/L as As)	14	0.93	0.47	0.00	2.00	0.13
Arsenic, dissolved (µg/L as As)	15	1.33	1.05	1.00	5.00	0.27
Cadmium, total recoverable (µg/L as Cd)	15	12.20	9.92	0.00	20.00	2.56
Cadmium, suspended recoverable (µg/L as C)	13	6.62	4.21	0.00	10.00	1.17
Cadmium, dissolved (µg/L as Cd)	16	1.06	1.06	0.00	3.00	0.27
Chromium, total recoverable (µg/L as Cr)	15	5.33	9.15	0.00	20.00	2.36
Chromium, suspended recoverable (µg/L as Cr)	15	1.73	3.69	0.00	10.00	0.95
Chromium, dissolved (µg/L as Cr)	15	2.93	7.00	0.00	20.00	1.81
Cobalt, total recoverable (µg/L as Co)	1	100.00	----	100.00	100.00	----
Cobalt, suspended recoverable (µg/L as C)	1	50.00	----	50.00	50.00	----
Cobalt, dissolved (µg/L as Co)	1	0.00	----	0.00	0.00	----
Copper, total recoverable (µg/L as Cu)	16	15.31	6.76	2.00	20.00	1.69
Copper, suspended recoverable (µg/L as C)	16	6.69	4.78	0.00	19.00	1.20
Copper, dissolved (µg/L as Cu)	16	3.88	4.59	0.00	20.00	1.15
Iron, total recoverable (µg/L as Fe)	10	613.00	665.80	70.00	2300.00	210.54
Iron, suspended recoverable (µg/L as Fe)	2	105.00	91.92	40.00	170.00	65.00
Iron, dissolved (µg/L as Fe)	60	95.50	80.45	10.00	510.00	10.39
Lead, total recoverable (µg/L as Pb)	16	103.65	99.70	0.00	200.00	24.93
Lead, suspended recoverable (µg/L as Pb)	16	52.50	48.58	0.00	100.00	12.14
Lead, dissolved (µg/L as Pb)	16	2.30	5.37	0.00	22.00	1.34
Manganese, total recoverable (µg/L as Mn)	16	71.88	80.43	20.00	360.00	20.11
Manganese, suspended recoverable (µg/L as Mn)	16	52.56	74.16	10.00	320.00	18.54
Manganese, dissolved (µg/L as Mn)	16	20.63	12.89	10.00	50.00	3.22
Mercury, total recoverable (µg/L as Hg)	16	0.77	1.20	0.00	4.50	0.30
Mercury, suspended recoverable (µg/L as Hg)	16	0.29	0.75	0.00	2.30	0.19
Mercury, dissolved (µg/L as Hg)	16	0.49	0.51	0.00	2.20	0.13
Selenium, total (µg/L as Se)	16	1.12	0.37	0.00	2.00	0.09
Selenium, suspended total (µg/L as Se)	15	0.53	0.35	0.00	1.00	0.09
Selenium, dissolved (µg/L as Se)	16	1.06	0.37	0.00	2.00	0.09
Zinc, total recoverable (µg/L as Zn)	16	26.56	19.32	0.00	80.00	4.83
Zinc, suspended recoverable (µg/L as Zn)	15	16.00	15.02	0.00	50.00	3.88
Zinc, dissolved (µg/L as Zn)	16	14.25	11.50	0.00	40.00	2.88
Sediment, suspended (mg/L)	6	16.50	13.37	5.00	38.00	5.46
Sediment, discharge, suspended (ton/d)	4	16.60	17.35	3.80	41.00	8.68

Table 5.--Statistical summary of water-quality data collected at selected surface-water gaging stations in the southern Yampa River basin--Continued

09247600 Yampa River below Craig

Parameter	N	Mean	Standard deviation	Minimum value	Maximum value	Standard error of mean
Streamflow, instantaneous (ft^3/s)	72	1690.14	2627.01	10.70	9990.00	309.60
Specific conductance (µS/cm)	60	533.40	139.08	78.00	670.00	17.96
pH (standard units)	60	8.00	0.55	7.00	9.00	0.07
Temperature (°C)	60	9.26	7.75	0.00	24.00	1.00
Phosphorus, total (mg/L as P)	60	0.11	0.07	0.01	0.27	0.01
Aluminum, total recoverable (µg/L as Al)	12	963.33	1422.46	80.00	4800.00	410.63
Aluminum, suspended recoverable (µg/L as Al)	10	1063.00	1500.41	30.00	4700.00	474.47
Aluminum, dissolved (µg/L as Al)	13	40.00	24.48	10.00	80.00	6.79
Arsenic, total (µg/L as As)	13	1.54	0.66	1.00	3.00	0.18
Arsenic, suspended total (µg/L as As)	10	1.00	0.47	0.00	2.00	0.15
Arsenic, dissolved (µg/L as As)	13	1.08	0.28	1.00	2.00	0.08
Cadmium, total recoverable (µg/L as Cd)	14	8.79	10.11	0.00	20.00	2.70
Cadmium, suspended recoverable (µg/L as C)	11	4.36	4.67	0.00	10.00	1.41
Cadmium, dissolved (µg/L as Cd)	14	1.00	0.96	0.00	2.00	0.26
Chromium, total recoverable (µg/L as Cr)	13	11.15	9.61	0.00	20.00	2.66
Chromium, suspended recoverable (µg/L as Cr)	12	4.17	6.69	0.00	20.00	1.93
Chromium, dissolved (µg/L as Cr)	13	4.62	8.77	0.00	20.00	2.43
Cobalt, total recoverable (µg/L as Co)	1	100.00	----	100.00	100.00	----
Cobalt, suspended recoverable (µg/L as C)	1	50.00	----	50.00	50.00	----
Cobalt, dissolved (µg/L as Co)	1	0.00	----	0.00	0.00	----
Copper, total recoverable (µg/L as Cu)	14	13.50	9.19	0.00	31.00	2.46
Copper, suspended recoverable (µg/L as C)	13	7.77	6.96	0.00	27.00	1.93
Copper, dissolved (µg/L as Cu)	14	3.21	3.24	0.00	13.00	0.87
Iron, total recoverable (µg/L as Fe)	8	1135.00	1692.18	70.00	5000.00	598.27
Iron, suspended recoverable (µg/L as Fe)	2	75.00	49.50	40.00	110.00	35.00
Iron, dissolved (µg/L as Fe)	58	91.38	71.04	10.00	370.00	9.33
Lead, total recoverable (µg/L as Pb)	14	89.36	99.56	0.00	200.00	26.61
Lead, suspended recoverable (µg/L as Pb)	13	40.62	47.15	0.00	99.00	13.08
Lead, dissolved (µg/L as Pb)	14	2.00	3.11	0.00	12.00	0.83
Manganese, total recoverable (µg/L as Mn)	14	71.43	41.30	20.00	170.00	11.04
Manganese, suspended recoverable (µg/L as Mn)	13	53.08	36.14	0.00	120.00	10.02
Manganese, dissolved (µg/L as Mn)	14	22.07	16.32	9.00	60.00	4.36
Mercury, total recoverable (µg/L as Hg)	14	0.46	0.49	0.00	2.00	0.13
Mercury, suspended recoverable (µg/L as Hg)	12	0.04	0.12	0.00	0.40	0.03
Mercury, dissolved (µg/L as Hg)	14	0.42	0.40	0.00	1.60	0.11
Selenium, total (µg/L as Se)	14	1.00	0.39	0.00	2.00	0.10
Selenium, suspended total (µg/L as Se)	13	0.00	0.00	0.00	0.00	0.00
Selenium, dissolved (µg/L as Se)	14	1.00	0.39	0.00	2.00	0.10
Zinc, total recoverable (µg/L as Zn)	14	28.57	16.10	0.00	60.00	4.30
Zinc, suspended recoverable (µg/L as Zn)	12	22.50	20.96	0.00	60.00	6.05
Zinc, dissolved (µg/L as Zn)	14	7.57	9.67	0.00	20.00	2.58
Sediment, suspended (mg/L)	37	58.51	91.42	3.00	418.00	15.03
Sediment, discharge, suspended (ton/d)	32	905.59	2015.98	0.57	8530.00	356.38

Table 5.--*Statistical summary of water-quality data collected at selected surface-water gaging stations in the southern Yampa River basin*--Continued

09249750 Williams Fork at mouth, nr.. Hamilton

Parameter	N	Mean	Standard deviation	Minimum value	Maximum value	Standard error of mean
Streamflow, instantaneous (ft^3/s)	75	190.81	339.50	5.80	1350.00	39.18
Specific conductance (µS/cm)	61	421.46	135.49	128.00	860.00	17.35
pH (standard units)	62	8.08	0.35	7.10	8.70	0.04
Temperature (°C)	59	9.36	8.05	0.00	26.00	1.05
Phosphorus, total (mg/L as P)	59	0.10	0.27	0.00	1.90	0.03
Aluminum, total recoverable (µg/L as Al)	13	1337.69	1671.71	90.00	4800.00	463.65
Aluminum, suspended recoverable (µg/L as Al)	12	1045.00	1368.83	80.00	4400.00	395.15
Aluminum, dissolved (µg/L as Al)	13	43.46	37.94	0.00	100.00	10.52
Arsenic, total (µg/L as As)	13	1.69	0.63	1.00	3.00	0.17
Arsenic, suspended total (µg/L as As)	12	1.17	0.58	0.00	2.00	0.17
Arsenic, dissolved (µg/L as As)	13	1.15	0.38	1.00	2.00	0.10
Cadmium, total recoverable (µg/L as Cd)	14	8.86	10.04	0.00	20.00	2.68
Cadmium, suspended recoverable (µg/L as C)	12	4.67	4.74	0.00	10.00	1.37
Cadmium, dissolved (µg/L as Cd)	14	1.29	0.91	0.00	2.00	0.24
Chromium, total recoverable (µg/L as Cr)	13	10.00	11.55	0.00	30.00	3.20
Chromium, suspended recoverable (µg/L as Cr)	13	5.77	9.97	0.00	30.00	2.76
Chromium, dissolved (µg/L as Cr)	13	5.00	8.66	0.00	20.00	2.40
Cobalt, total recoverable (µg/L as Co)	1	100.00	----	100.00	100.00	----
Cobalt, suspended recoverable (µg/L as C)	1	50.00	----	50.00	50.00	----
Cobalt, dissolved (µg/L as Co)	1	0.00	----	0.00	0.00	----
Copper, total recoverable (µg/L as Cu)	14	15.14	6.97	0.00	20.00	1.86
Copper, suspended recoverable (µg/L as C)	14	7.07	4.39	0.00	15.00	1.17
Copper, dissolved (µg/L as Cu)	14	3.35	2.56	0.00	8.00	0.68
Iron, total recoverable (µg/L as Fe)	8	1511.25	1921.72	120.00	5600.00	679.43
Iron, suspended recoverable (µg/L as Fe)	3	236.67	171.56	80.00	420.00	99.05
Iron, dissolved (µg/L as Fe)	58	59.66	51.40	0.00	250.00	6.75
Lead, total recoverable (µg/L as Pb)	14	91.79	97.39	0.00	200.00	26.03
Lead, suspended recoverable (µg/L as Pb)	14	46.86	45.88	0.00	100.00	12.26
Lead, dissolved (µg/L as Pb)	14	2.21	2.52	0.00	8.00	0.67
Manganese, total recoverable (µg/L as Mn)	14	77.14	69.44	10.00	230.00	18.56
Manganese, suspended recoverable (µg/L as Mn)	14	60.86	69.75	0.00	220.00	18.64
Manganese, dissolved (µg/L as Mn)	14	16.93	12.81	8.00	50.00	3.42
Mercury, total recoverable (µg/L as Hg)	14	0.49	0.56	0.00	2.30	0.15
Mercury, suspended recoverable (µg/L as Hg)	13	0.08	0.20	0.00	0.70	0.05
Mercury, dissolved (µg/L as Hg)	14	0.42	0.40	0.00	1.40	0.11
Selenium, total (µg/L as Se)	14	1.00	0.39	0.00	2.00	0.10
Selenium, suspended total (µg/L as Se)	14	0.36	0.50	0.00	1.00	0.13
Selenium, dissolved (µg/L as Se)	14	0.93	0.27	0.00	1.00	0.07
Zinc, total recoverable (µg/L as Zn)	14	36.43	31.77	0.00	130.00	8.49
Zinc, suspended recoverable (µg/L as Zn)	12	21.67	28.23	0.00	100.00	8.15
Zinc, dissolved (µg/L as Zn)	14	10.43	12.07	0.00	30.00	3.23
Sediment, suspended (mg/L)	46	185.30	452.56	0.00	2710.00	66.72
Sediment, discharge, suspended (ton/d)	40	380.07	1613.85	0.00	9880.00	255.17

Table 5.--Statistical summary of water-quality data coll[illegible]t selected surface-water gaging stations in the southern Yampa Riv[illegible]--Continued

09250400 Good Spring Creek at Axial

Parameter	N	Mean	Standard deviation	Minimum value	Maximum value	Standard error of mean
Streamflow, instantaneous (ft³/s)	70	7.29	47.76	0.02	400.00	5.71
Specific conductance (µS/cm)	42	1367.14	230.81	1100.00	2320.00	35.62
pH (standard units)	32	8.17	0.75	7.90	8.80	0.03
Temperature (°C)	62	9.87	7.40	0.00	25.00	0.94
Phosphorus, total (mg/L as P)	3	0.05	0.05	0.02	0.10	0.03
Aluminum, total recoverable (µg/L as Al)	1	9500.00	-----	9500.00	9500.00	-----
Aluminum, suspended recoverable (µg/L as Al)	0	-----	-----	-----	-----	-----
Aluminum, dissolved (µg/L as Al)	0	-----	-----	-----	-----	-----
Arsenic, total (µg/L as As)	0	-----	-----	-----	-----	-----
Arsenic, suspended total (µg/L as As)	0	-----	-----	-----	-----	-----
Arsenic, dissolved (µg/L as As)	9	1.89	1.69	0.00	5.00	0.56
Cadmium, total recoverable (µg/L as Cd)	2	14.50	7.78	9.00	20.00	5.50
Cadmium, suspended recoverable (µg/L as C)	1	10.00	-----	10.00	10.00	-----
Cadmium, dissolved (µg/L as Cd)	10	1.20	1.03	0.00	2.00	0.33
Chromium, total recoverable (µg/L as Cr)	1	9.00	-----	9.00	9.00	-----
Chromium, suspended recoverable (µg/L as Cr)	0	-----	-----	-----	-----	-----
Chromium, dissolved (µg/L as Cr)	2	10.00	14.14	0.00	20.00	10.00
Cobalt, total recoverable (µg/L as Co)	2	56.00	62.23	12.00	100.00	44.00
Cobalt, suspended recoverable (µg/L as C)	1	50.00	-----	50.00	50.00	-----
Cobalt, dissolved (µg/L as Co)	4	0.50	1.00	0.00	2.00	0.50
Copper, total recoverable (µg/L as Cu)	2	13.00	9.90	6.00	20.00	7.00
Copper, suspended recoverable (µg/L as C)	1	9.00	-----	9.00	9.00	-----
Copper, dissolved (µg/L as Cu)	9	3.33	3.84	0.00	13.00	1.28
Iron, total recoverable (µg/L as Fe)	2	2095.00	2694.08	190.00	4000.00	1905.00
Iron, suspended recoverable (µg/L as Fe)	1	180.00	-----	180.00	180.00	-----
Iron, dissolved (µg/L as Fe)	19	45.26	42.74	10.00	200.00	9.80
Lead, total recoverable (µg/L as Pb)	2	110.00	127.28	20.00	200.00	90.00
Lead, suspended recoverable (µg/L as Pb)	1	100.00	-----	100.00	100.00	-----
Lead, dissolved (µg/L as Pb)	10	3.30	3.23	0.00	11.00	1.02
Manganese, total recoverable (µg/L as Mn)	2	160.00	197.99	20.00	300.00	140.00
Manganese, suspended recoverable (µg/L as Mn)	1	10.00	-----	10.00	10.00	-----
Manganese, dissolved (µg/L as Mn)	20	84.50	58.53	10.00	180.00	13.09
Mercury, total recoverable (µg/L as Hg)	1	0.50	-----	0.50	0.50	-----
Mercury, suspended recoverable (µg/L as Hg)	1	0.00	-----	0.00	0.00	-----
Mercury, dissolved (µg/L as Hg)	10	0.37	0.21	0.00	0.50	0.07
Selenium, total (µg/L as Se)	1	2.00	-----	2.00	2.00	-----
Selenium, suspended total (µg/L as Se)	1	0.00	-----	0.00	0.00	-----
Selenium, dissolved (µg/L as Se)	8	2.00	0.53	1.00	3.00	0.19
Zinc, total recoverable (µg/L as Zn)	2	24.00	5.66	20.00	28.00	4.00
Zinc, suspended recoverable (µg/L as Zn)	1	10.00	-----	10.00	10.00	-----
Zinc, dissolved (µg/L as Zn)	10	13.00	9.49	0.00	20.00	3.00
Sediment, suspended (mg/L)	66	143.71	131.38	12.00	812.00	16.17
Sediment, discharge, suspended (ton/d)	66	7.34	52.37	0.00	426.00	6.45

Table 5.--Statistical summary of water-quality data collected at selected surface-water gaging stations in the southern Yampa River basin--Continued

09251000 Yampa River near Maybell

Parameter	N	Mean	Standard deviation	Minimum value	Maximum value	Standard error of mean
Streamflow, instantaneous (ft^3/s)	200	1758.22	2911.78	31.80	13,600.00	205.89
Specific conductance (µS/cm)	774	422.59	178.54	100.00	1,100.00	6.42
pH (standard units)	768	7.70	0.38	6.60	8.90	0.01
Temperature (°C)	418	9.43	7.97	0.00	28.00	0.39
Phosphorus, total (mg/L as P)	93	0.12	0.20	0.01	1.60	0.02
Aluminum, total recoverable (µg/L as Al)	2	2600.00	1555.63	1500.00	3,700.00	1100.00
Aluminum, suspended recoverable (µg/L as Al)	0	-----	-----	-----	-----	-----
Aluminum, dissolved (µg/L as Al)	7	30.00	14.14	20.00	60.00	5.35
Arsenic, total (µg/L as As)	30	1.73	1.64	0.00	9.00	0.30
Arsenic, suspended total (µg/L as As)	21	1.43	1.91	0.00	9.00	0.42
Arsenic, dissolved (µg/L as As)	38	1.16	0.37	1.00	2.00	0.06
Cadmium, total recoverable (µg/L as Cd)	30	8.40	9.65	0.00	20.00	1.76
Cadmium, suspended recoverable (µg/L as C)	19	5.47	4.51	0.00	10.00	1.04
Cadmium, dissolved (µg/L as Cd)	39	1.31	0.80	0.00	3.00	0.13
Chromium, total recoverable (µg/L as Cr)	29	8.97	8.60	0.00	20.00	1.60
Chromium, suspended recoverable (µg/L as Cr)	23	3.48	6.47	0.00	20.00	1.35
Chromium, dissolved (µg/L as Cr)	38	6.50	8.06	0.00	20.00	1.31
Cobalt, total recoverable (µg/L as Co)	30	41.27	48.84	0.00	100.00	8.92
Cobalt, suspended recoverable (µg/L as C)	19	29.37	24.66	0.00	50.00	5.66
Cobalt, dissolved (µg/L as Co)	39	2.13	3.25	0.00	20.00	0.52
Copper, total recoverable (µg/L as Cu)	30	26.43	64.47	2.00	360.00	11.77
Copper, suspended recoverable (µg/L as C)	29	17.97	64.49	0.00	350.00	11.97
Copper, dissolved (µg/L as Cu)	39	5.41	9.12	0.00	58.00	1.46
Iron, total recoverable (µg/L as Fe)	68	763.24	1916.21	20.00	13,000.00	232.38
Iron, suspended recoverable (µg/L as Fe)	16	129[illegible].75	1947.61	10.00	6,200.00	486.90
Iron, dissolved (µg/L as Fe)	177	[illegible]3.50	61.92	3.00	370.00	4.65
Lead, total recoverable (µg/L as Pb)	30	63.67	96.70	0.00	200.00	17.66
Lead, suspended recoverable (µg/L as Pb)	27	42.52	47.18	0.00	100.00	9.08
Lead, dissolved (µg/L as Pb)	39	2.33	3.74	0.00	23.00	0.60
Manganese, total recoverable (µg/L as Mn)	30	64.67	70.45	20.00	350.00	12.86
Manganese, suspended recoverable (µg/L as Mn)	29	51.38	63.40	0.00	300.00	11.77
Manganese, dissolved (µg/L as Mn)	71	14.11	10.62	0.00	50.00	1.26
Mercury, total recoverable (µg/L as Hg)	29	0.49	0.94	0.00	4.90	0.18
Mercury, suspended recoverable (µg/L as Hg)	23	0.13	0.43	0.00	1.90	0.09
Mercury, dissolved (µg/L as Hg)	39	0.33	0.64	0.00	4.00	0.10
Selenium, total (µg/L as Se)	31	1.19	1.19	0.00	7.00	0.21
Selenium, suspended total (µg/L as Se)	25	0.20	0.41	0.00	1.00	0.08
Selenium, dissolved (µg/L as Se)	39	1.33	1.18	0.00	7.00	0.19
Zinc, total recoverable (µg/L as Zn)	29	37.24	34.42	0.00	150.00	6.39
Zinc, suspended recoverable (µg/L as Zn)	24	26.2[illegible]	29.61	0.00	130.00	6.04
Zinc, dissolved (µg/L as Zn)	39	12.74	15.33	0.00	70.00	2.45
Sediment, suspended (mg/L)	144	167.74	315.48	2.00	2,080.00	26.29
Sediment, discharge, suspended (ton/d)	129	26[illegible]0.25	6940.21	0.93	47,200.00	611.05

☆ U.S. GOVERNMENT PRINTING OFFICE: [illegible]